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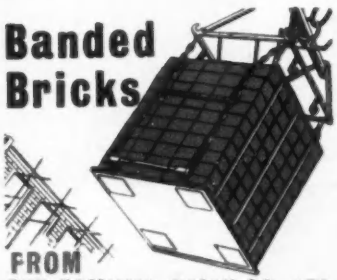

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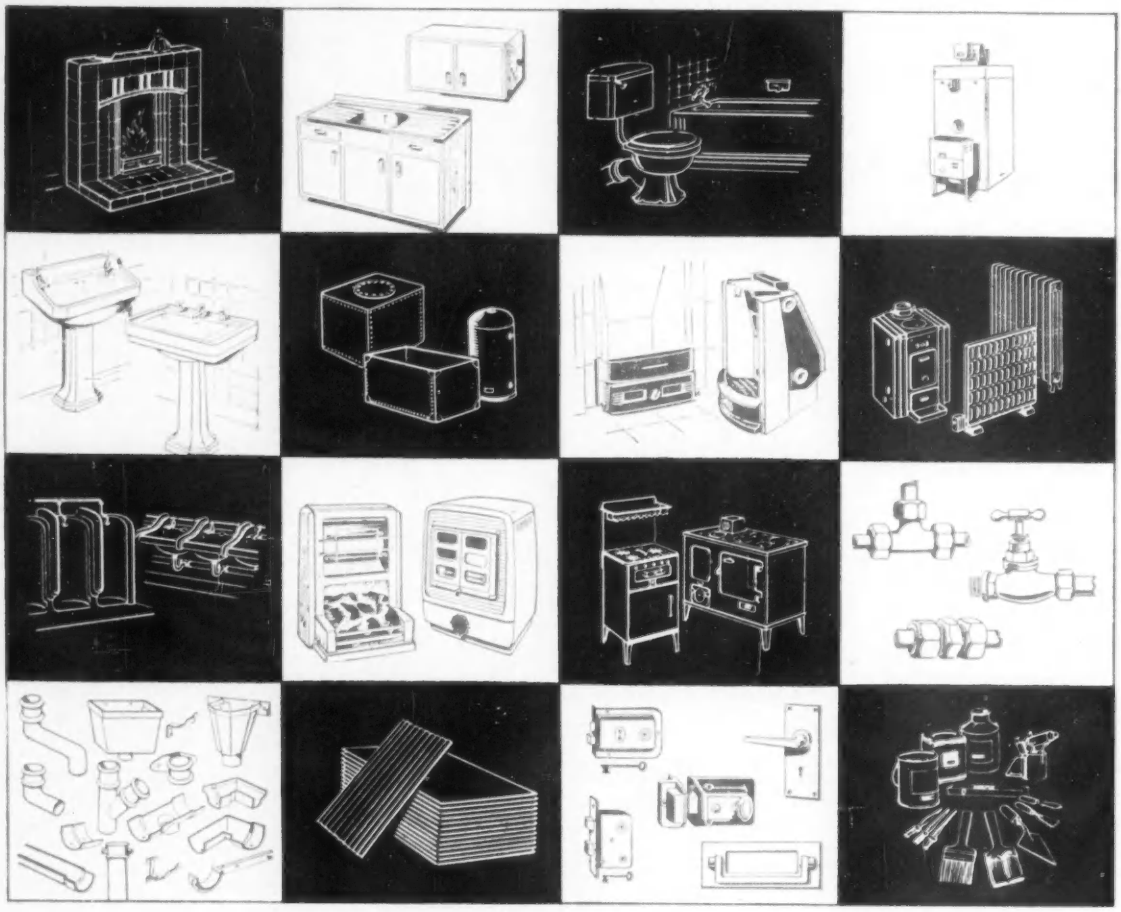

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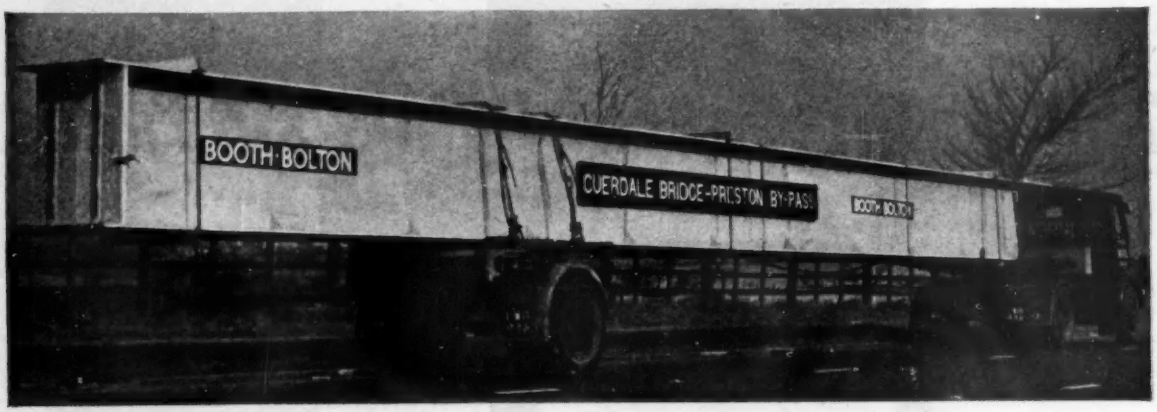


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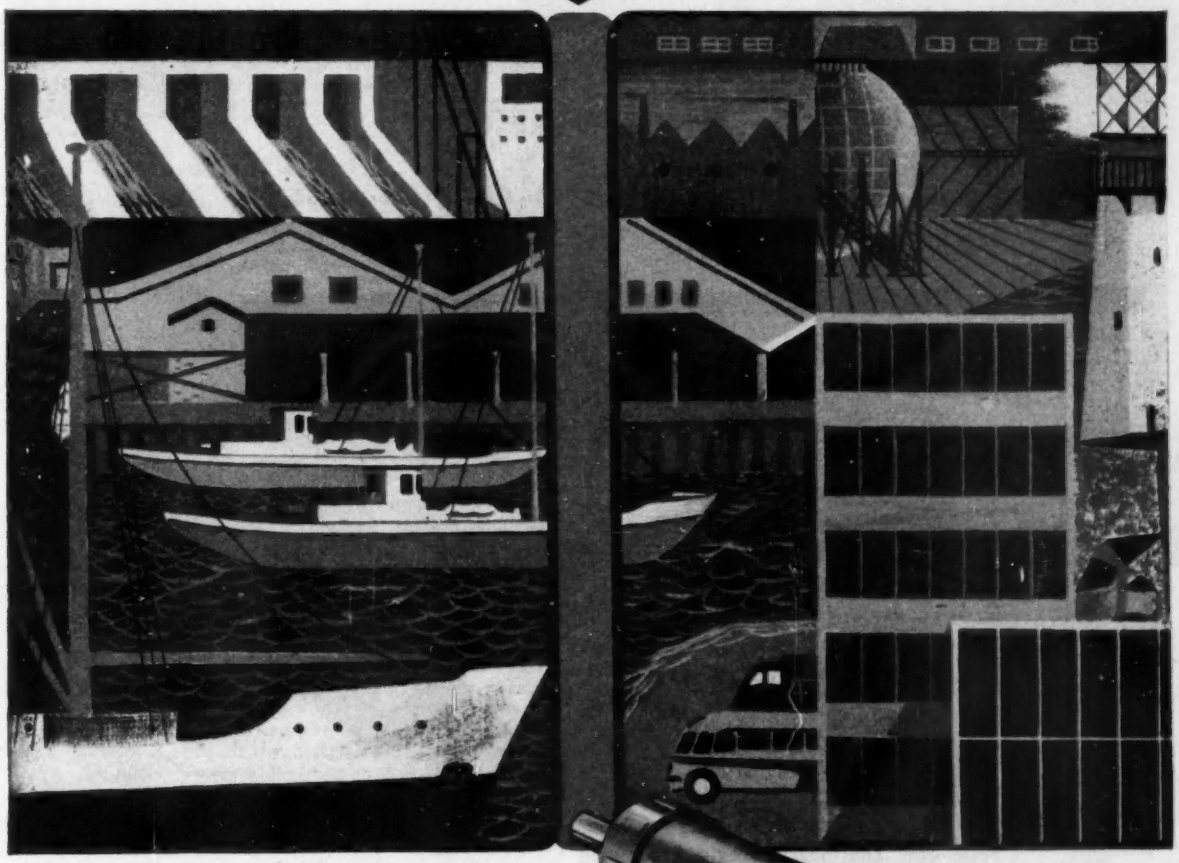

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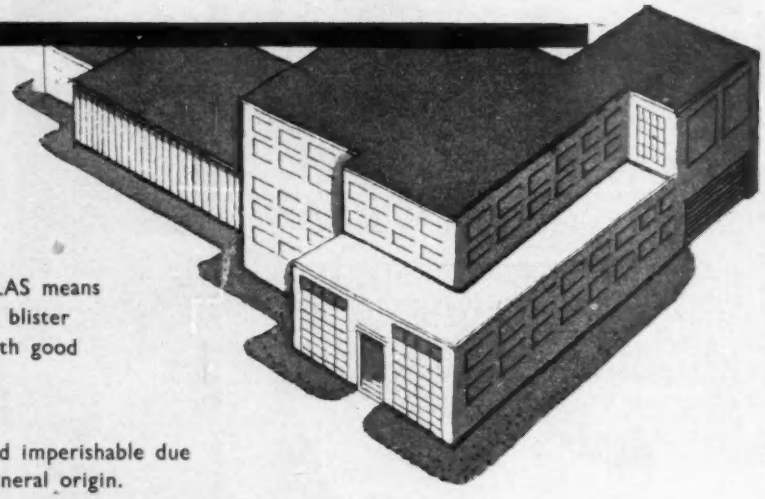

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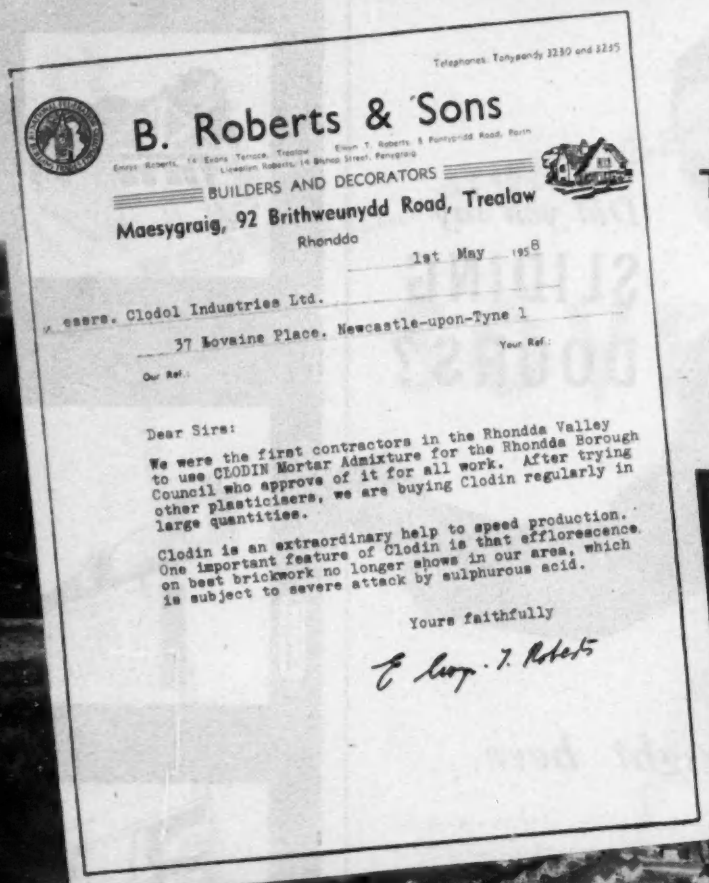

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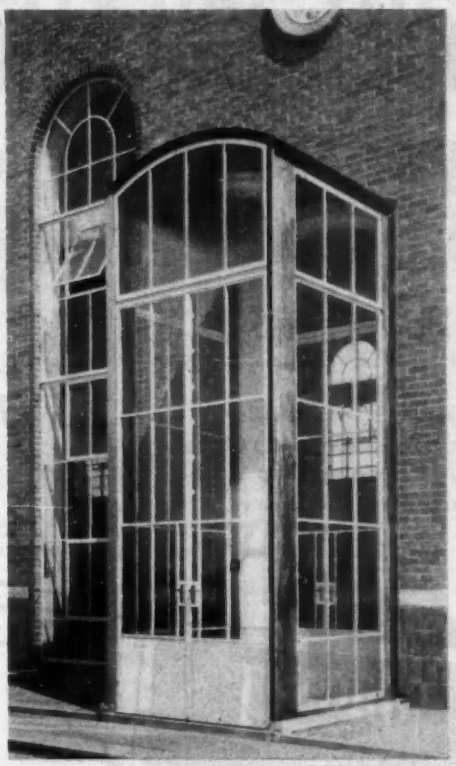

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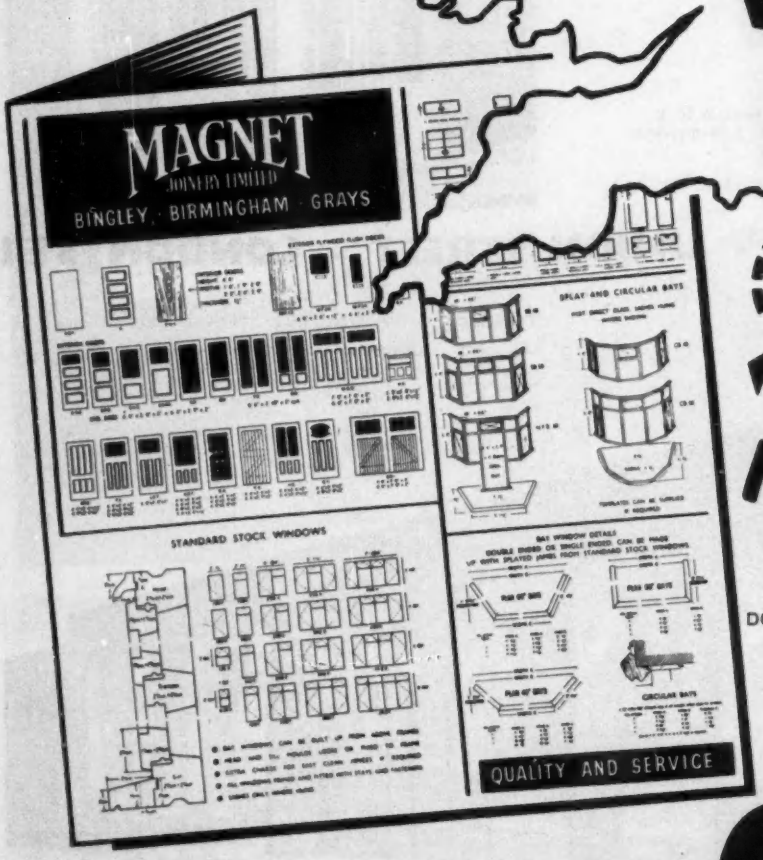


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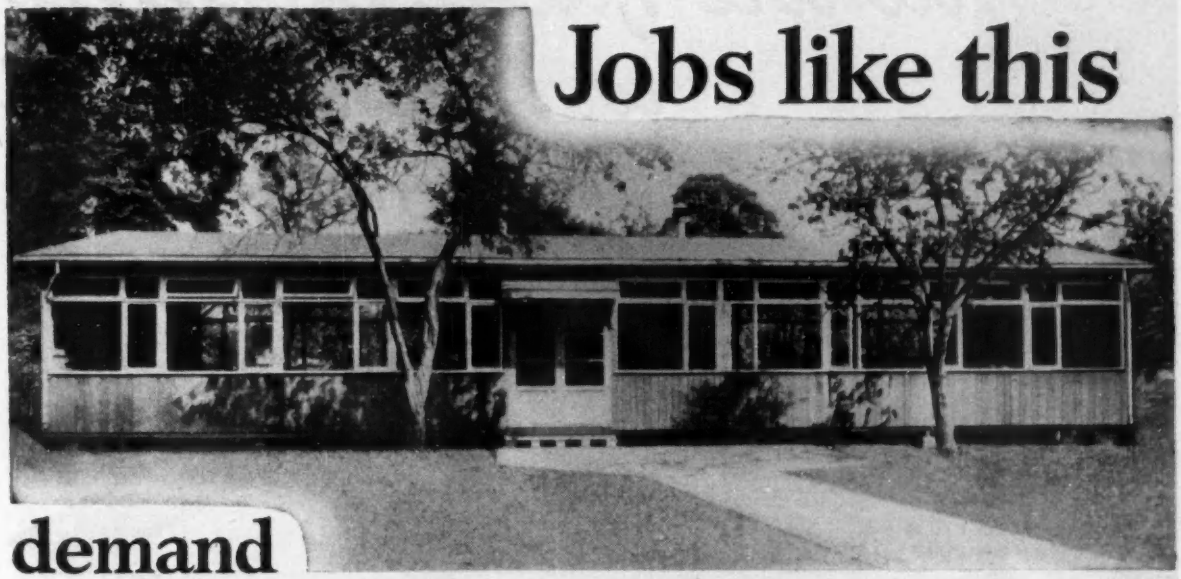

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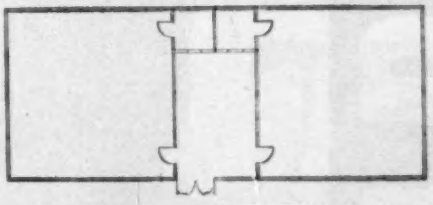

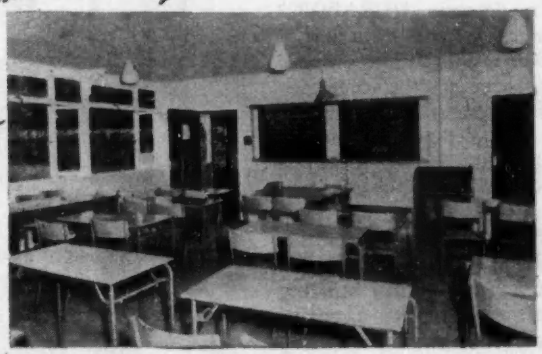

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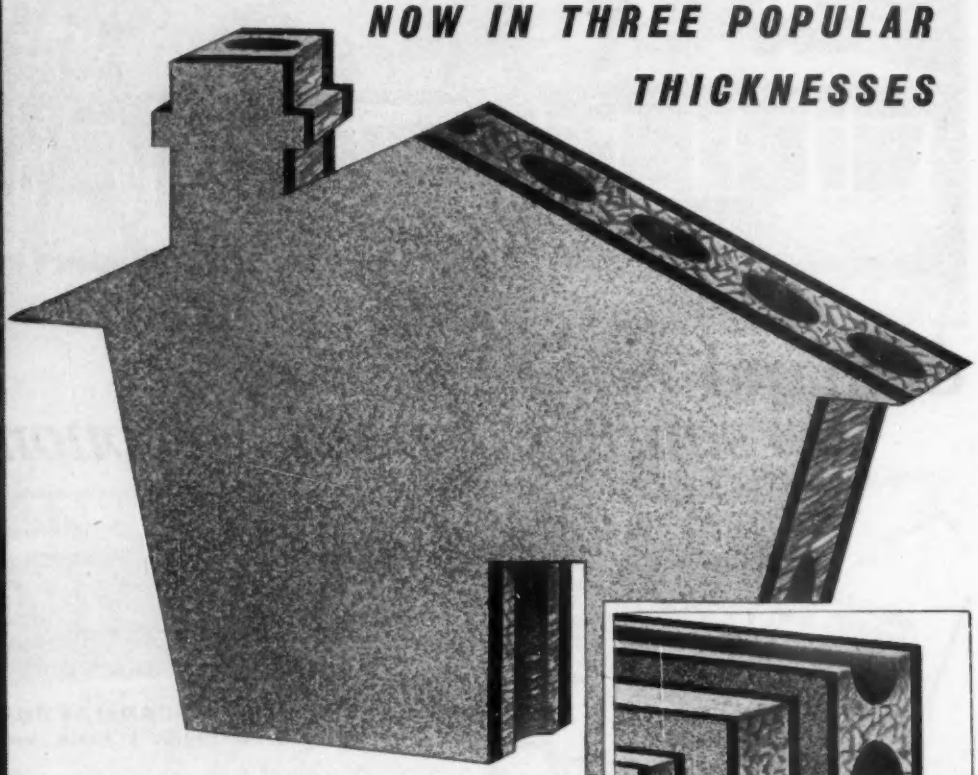

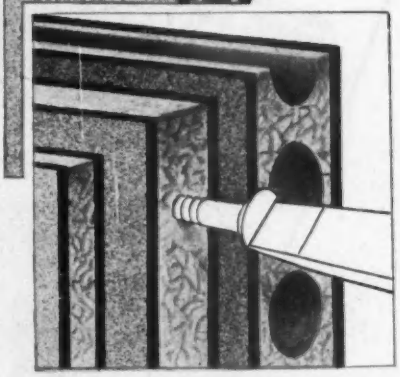

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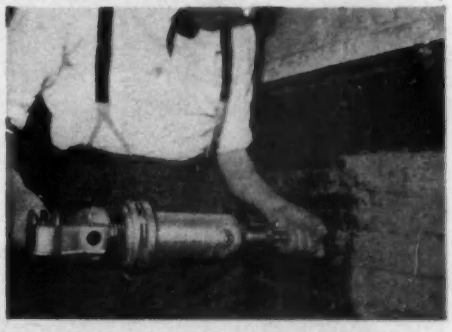

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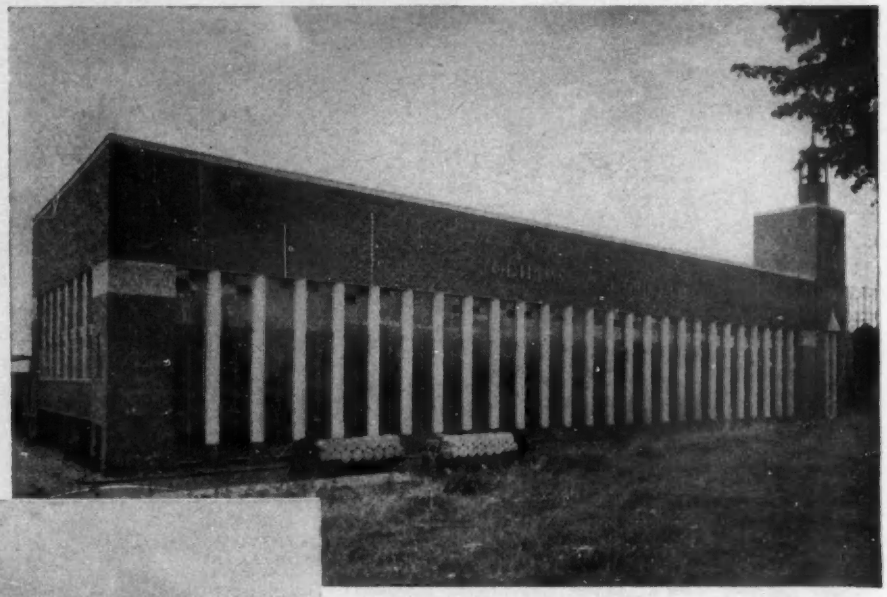

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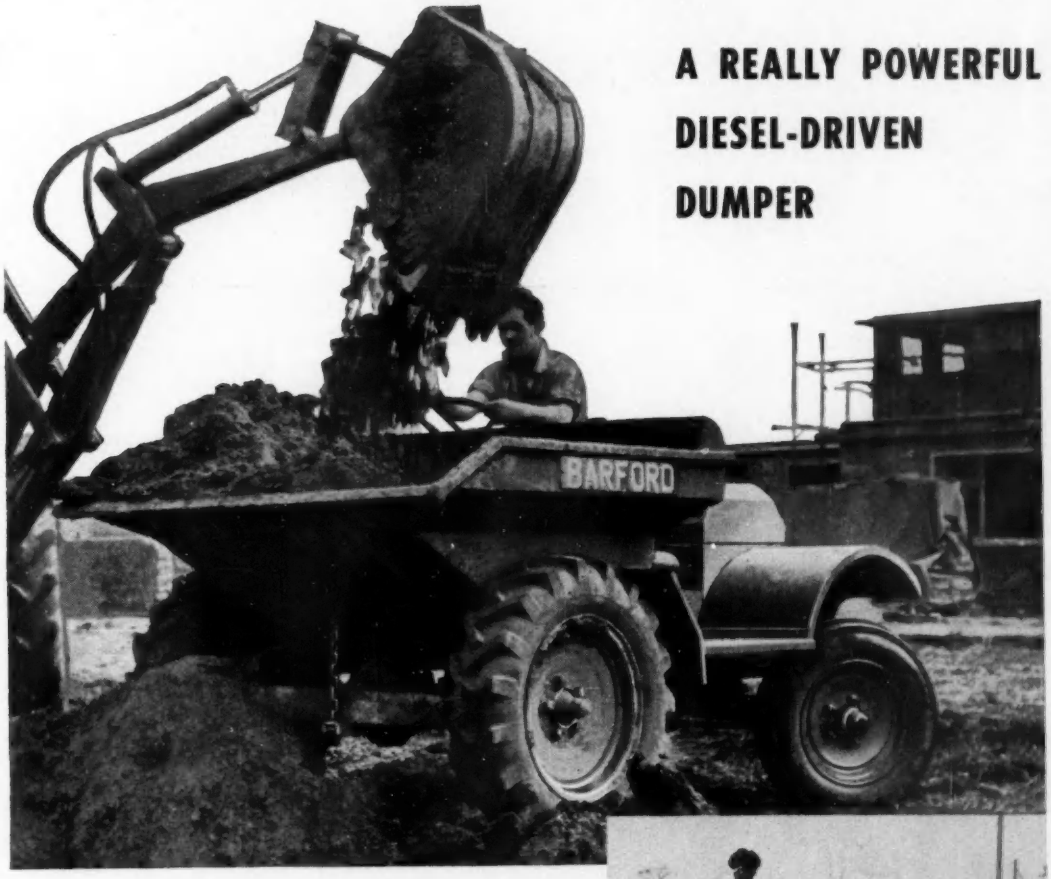

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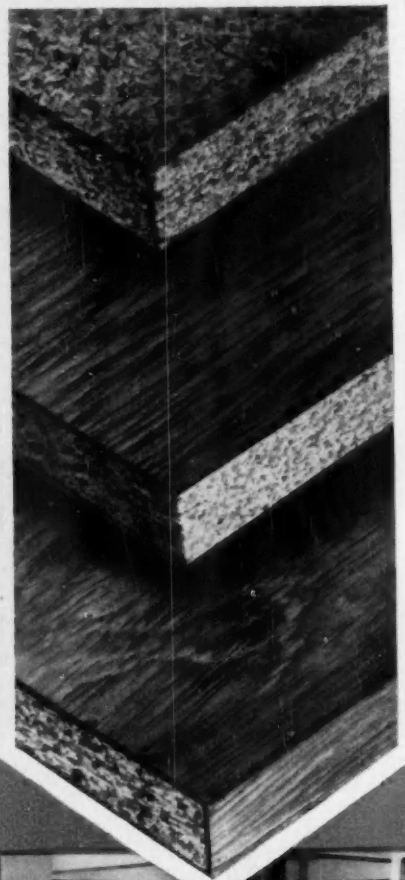

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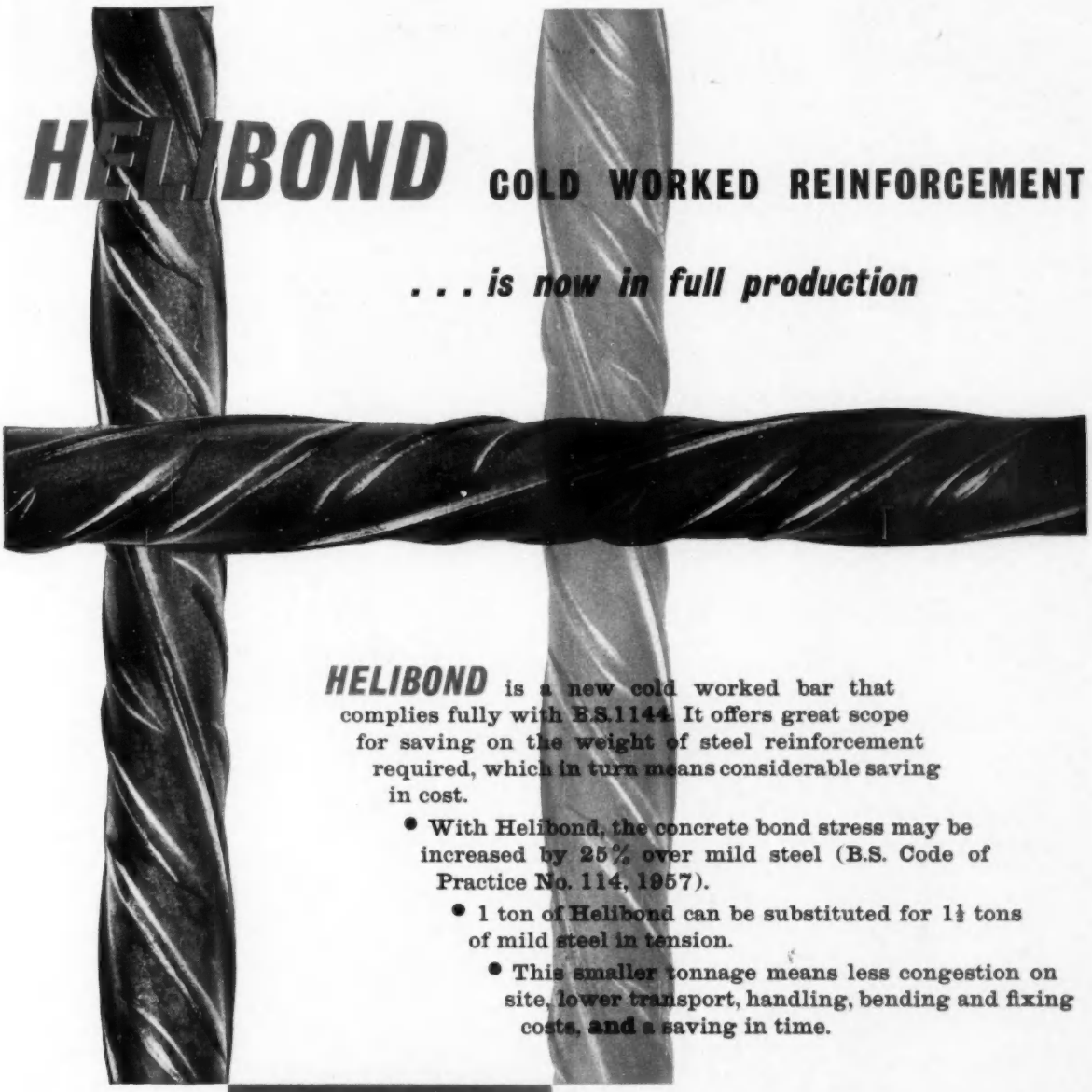

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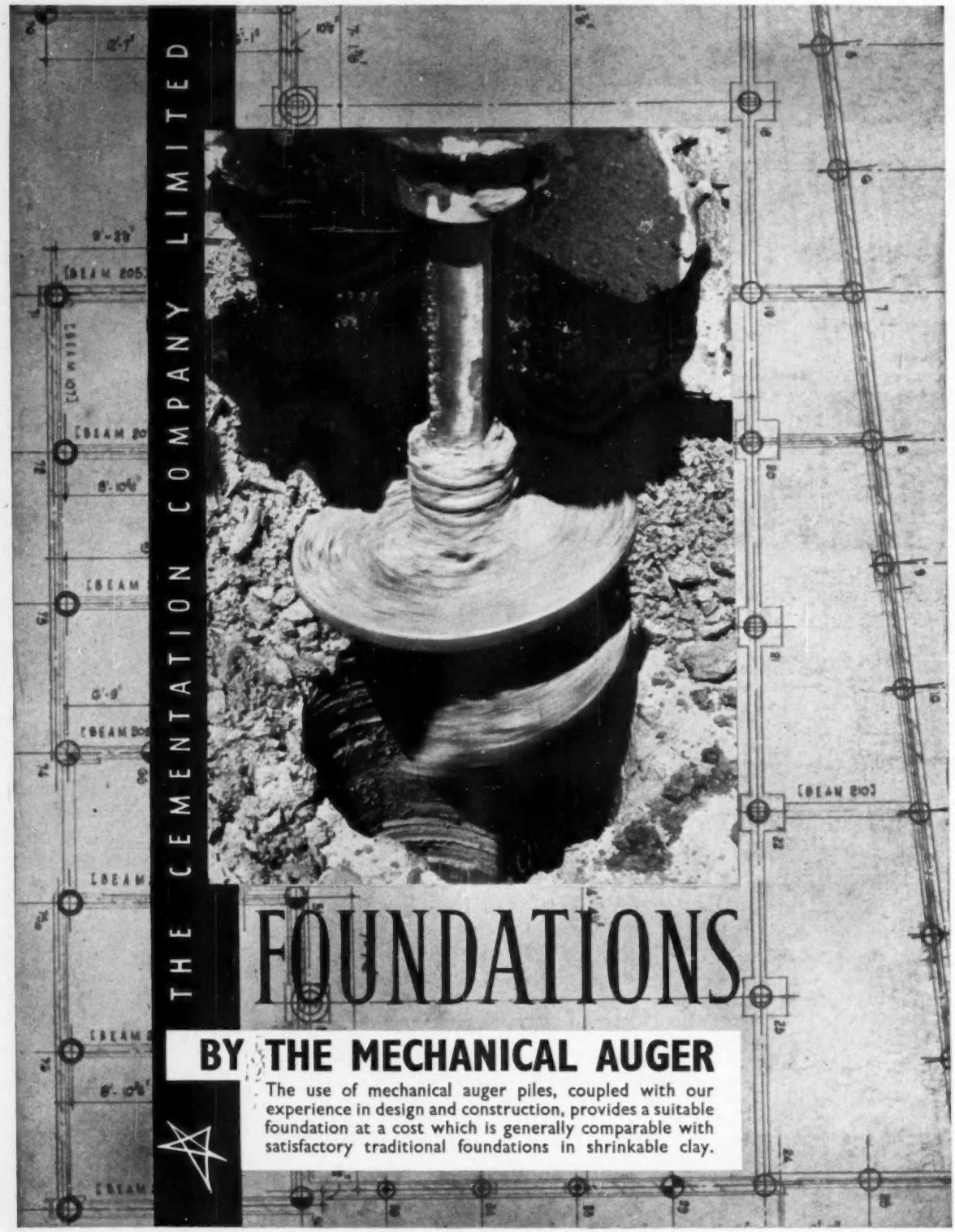


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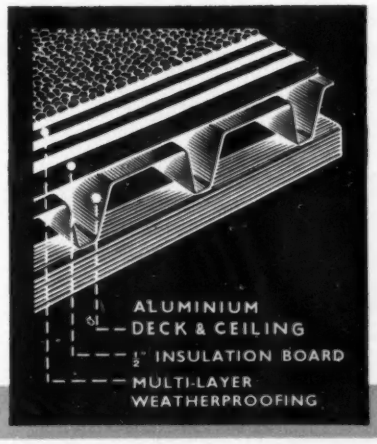


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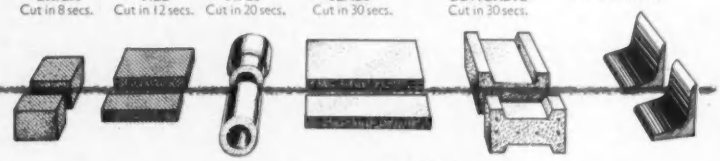

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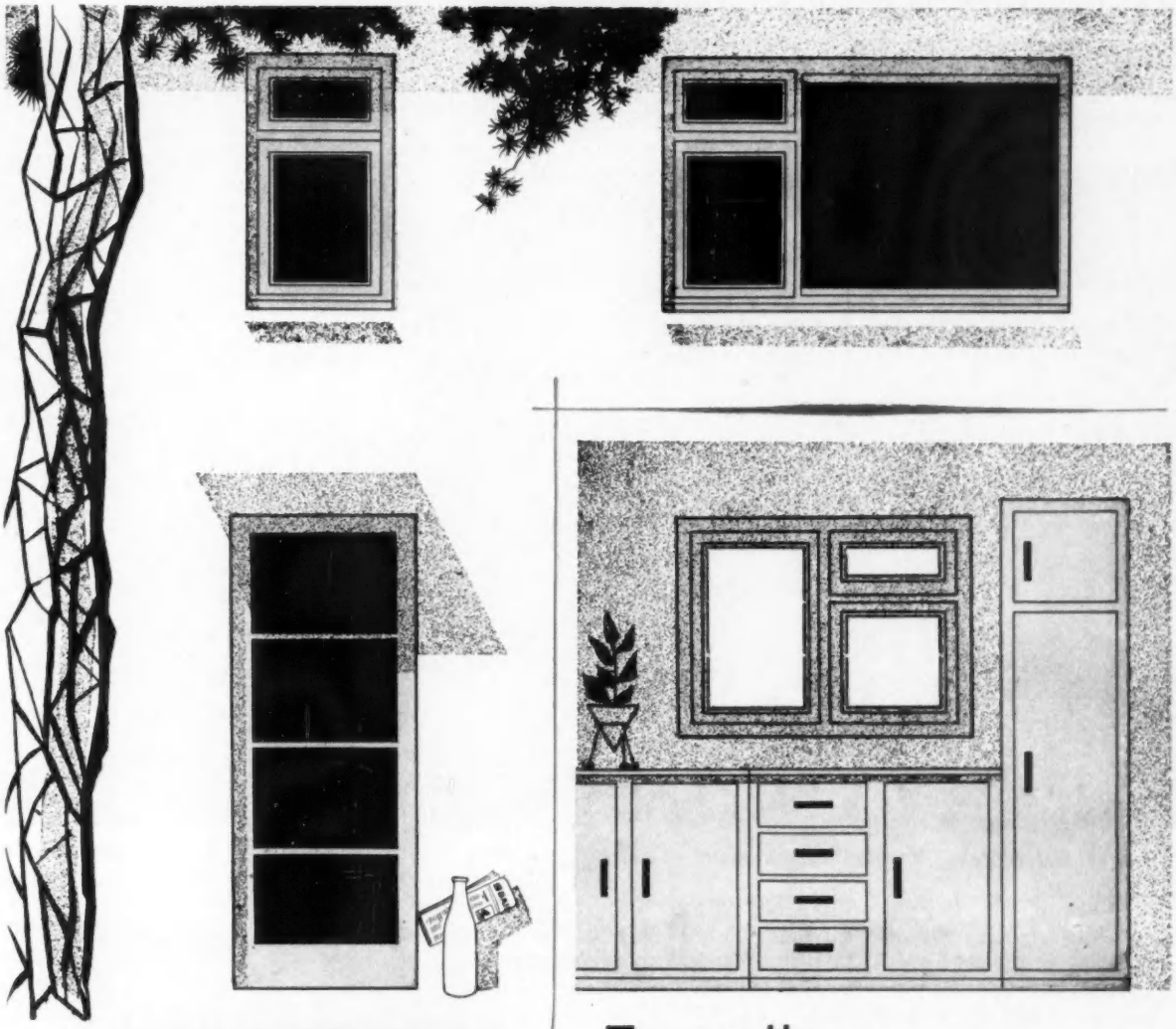

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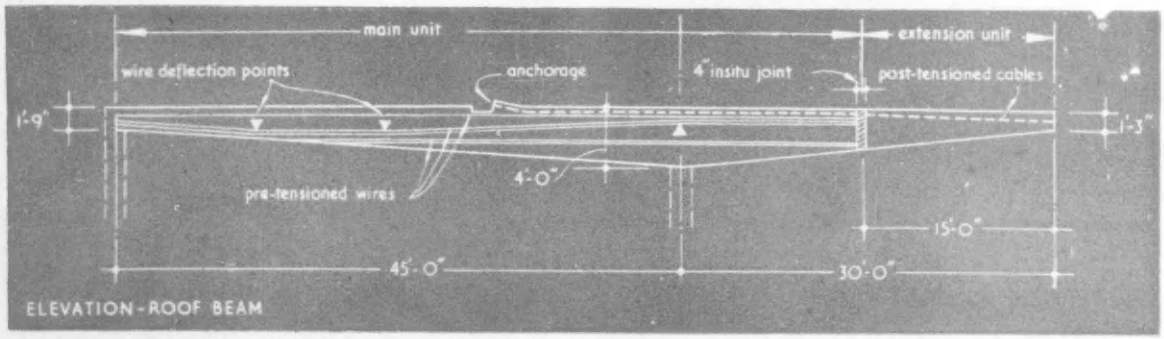


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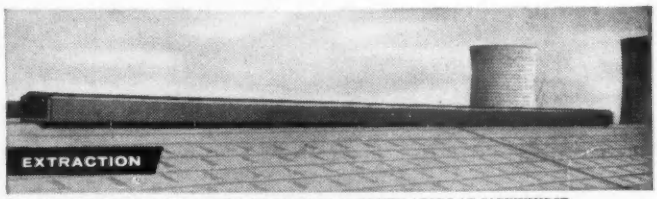


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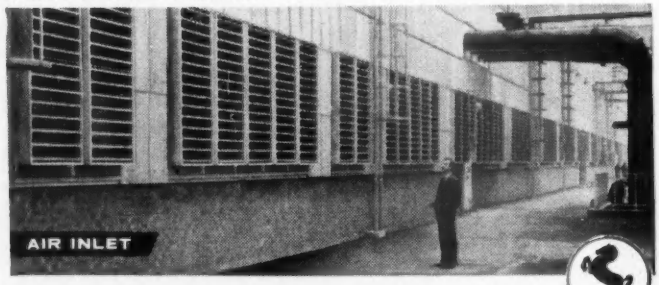


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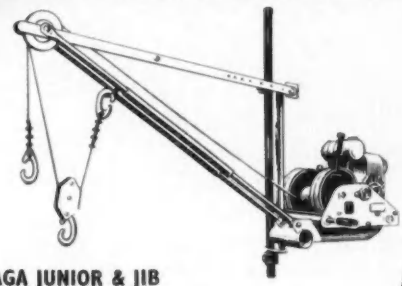

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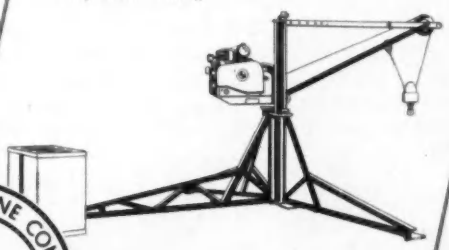

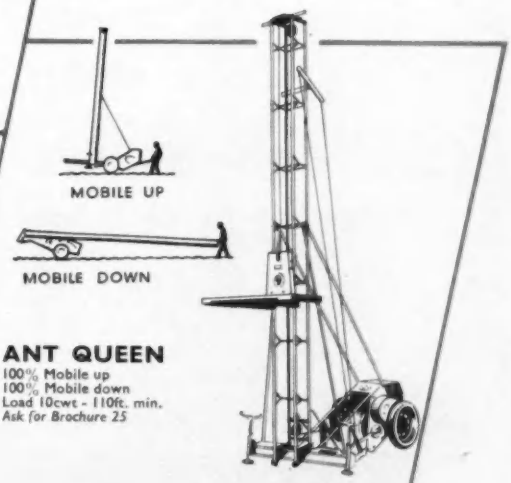


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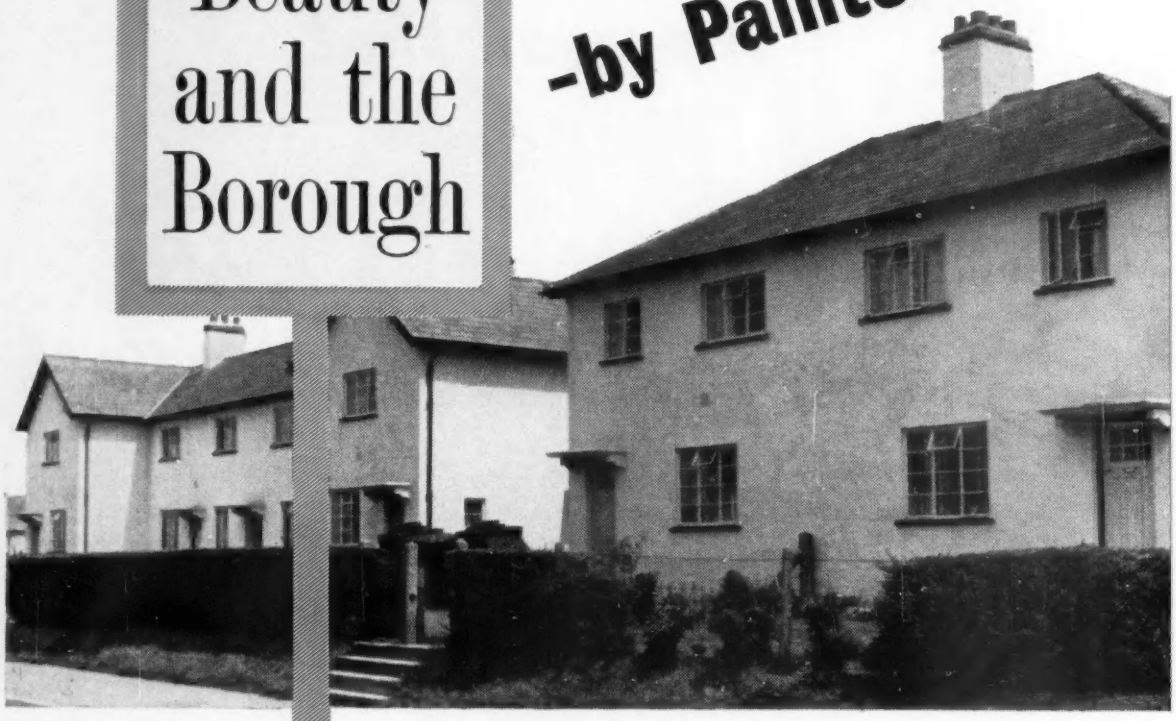

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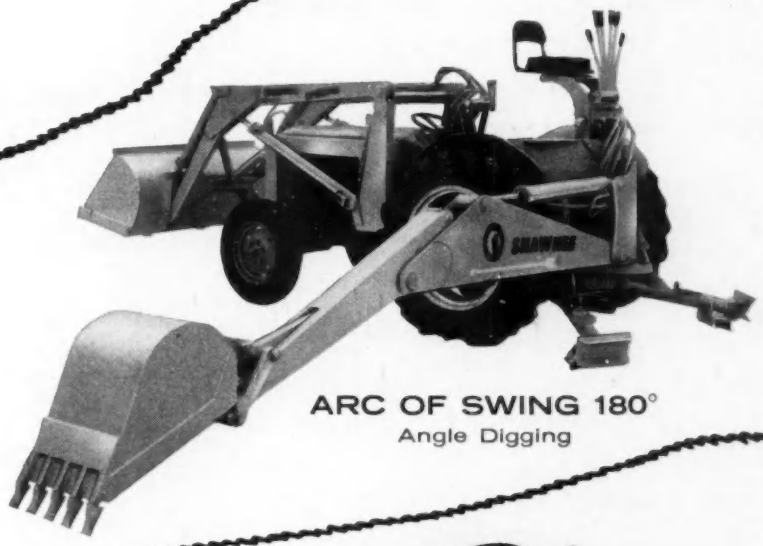


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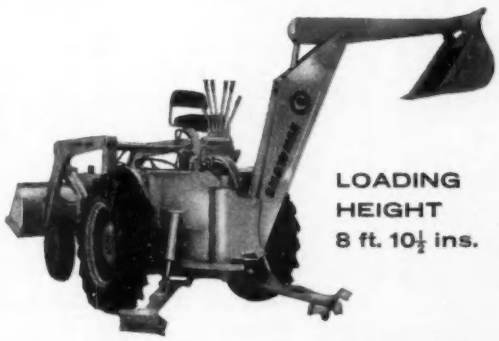


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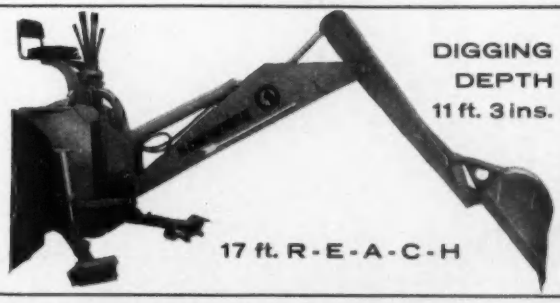


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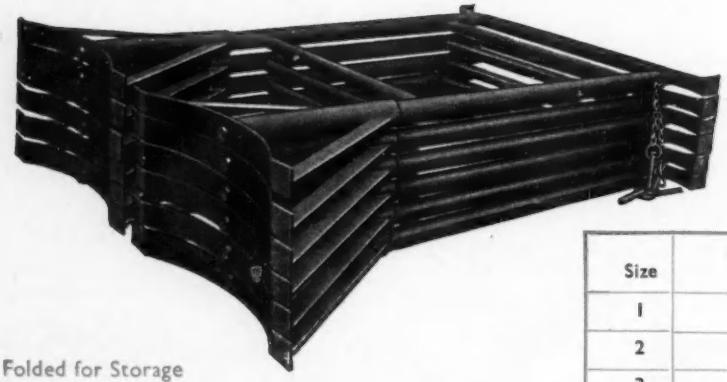

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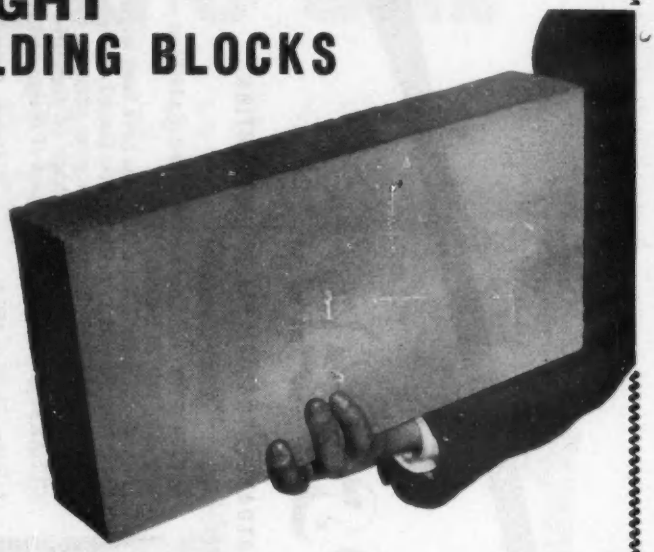
P.3910

# CELL CONCRETE LIGHTWEIGHT INSULATING & BUILDING BLOCKS

*for*

*PARTITIONS AND CAVITY WALLS*



| | |
|---|---|
| *Dimensions* ... ... ... | *9" × 18" (nominal)* |
| *Thickness* ... ... ... | *2", 2½", 3", 3½", 4", 4½", 5", 6", 7", 8", 9"* |
| *Density* ... ... ... | *50 lbs./cu.ft.* |
| *Crushing Strength* ... ... | *750 lbs./sq.in.* |
| *Moisture Movement* ... | *.03%* |
| *Drying Shrinkage* ... ... | *.04%* |
| *Thermal Conductivity K* ... | *1.2 BTU/sq. ft./hr./F°/inch* |
| *Fire Resistance* ... ... | *4 hour grading; 4" block wall tested at Fire Research Station* |

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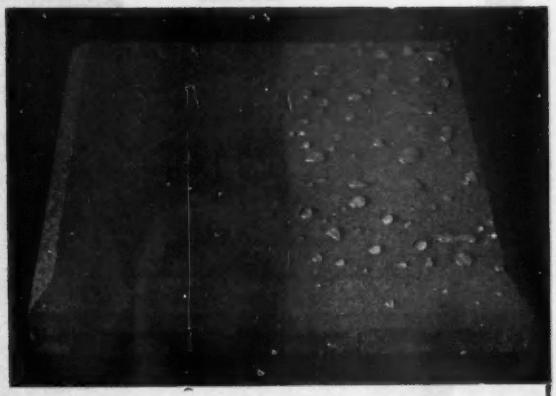

*Concrete slab, partly treated. See how the water sinks into the untreated portion and stays in drops elsewhere. Note the sharp division.*

*Manufacturers:* **ANDREW MAXWELL DIVISION**
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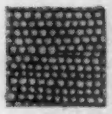

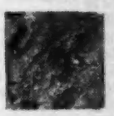

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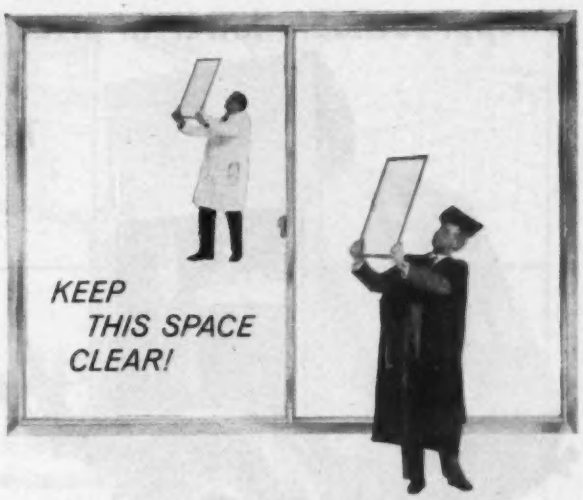


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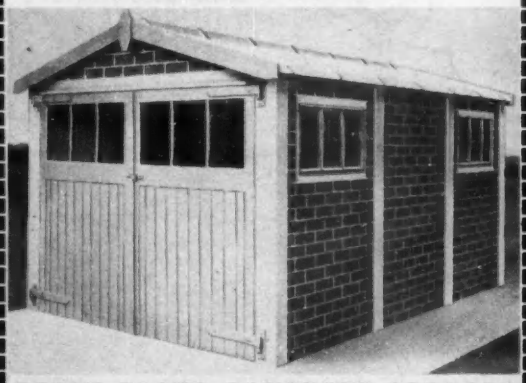

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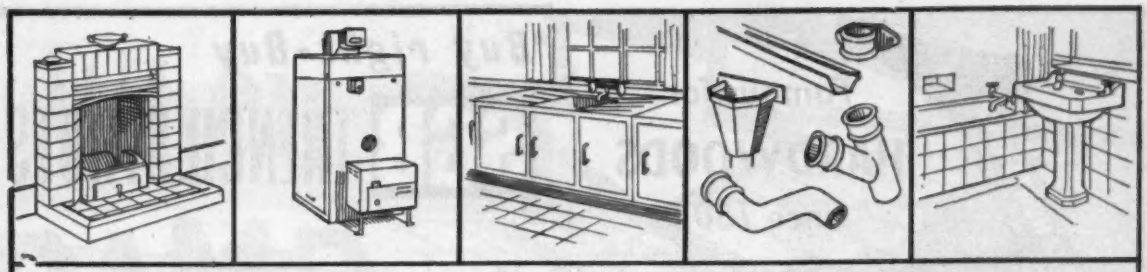

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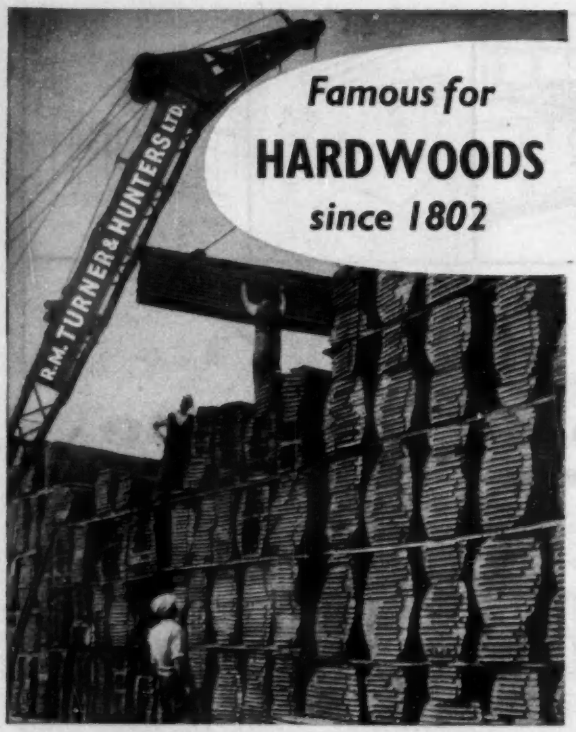


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| 1 | 1 | 6 | 2 | 4 |
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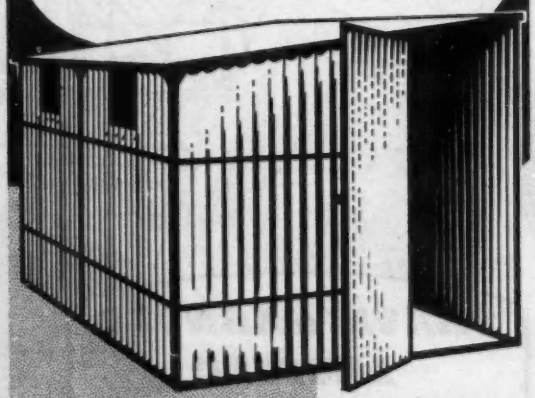

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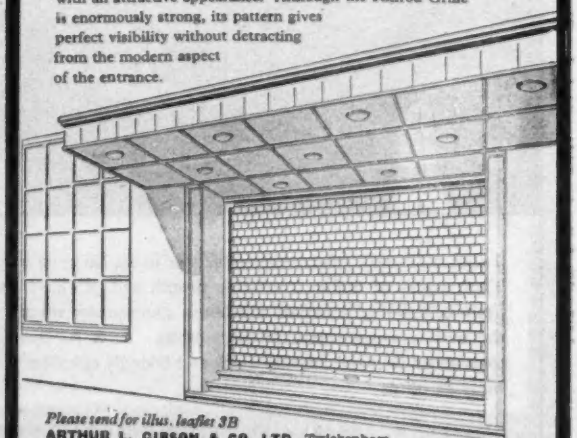

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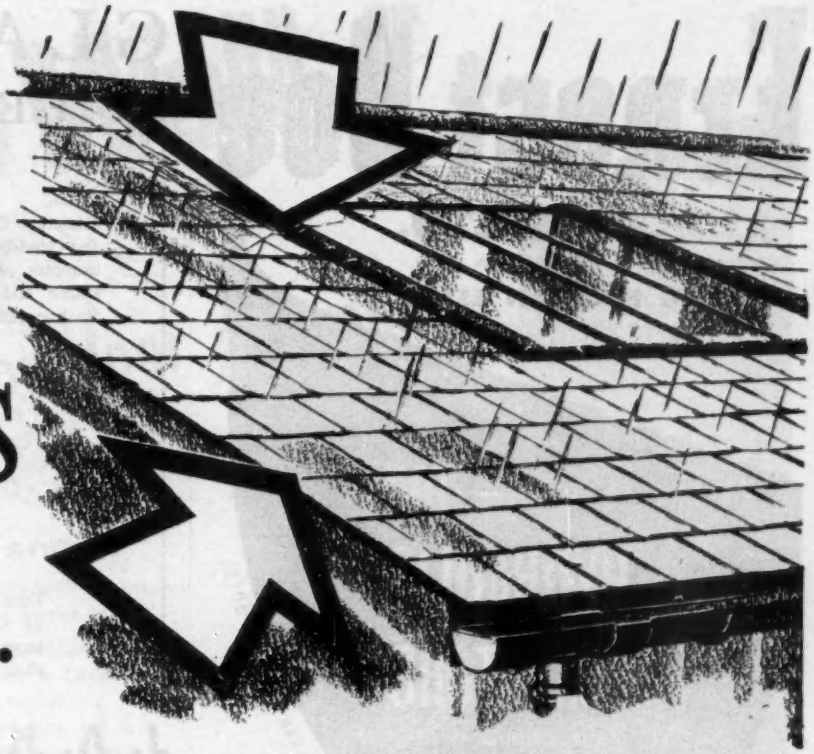

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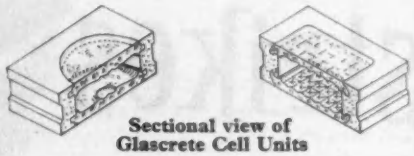

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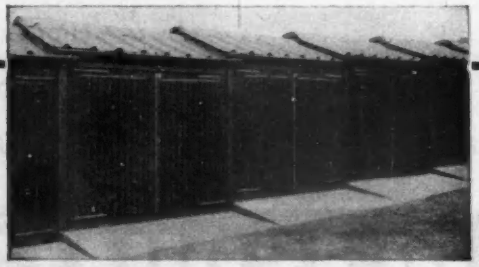

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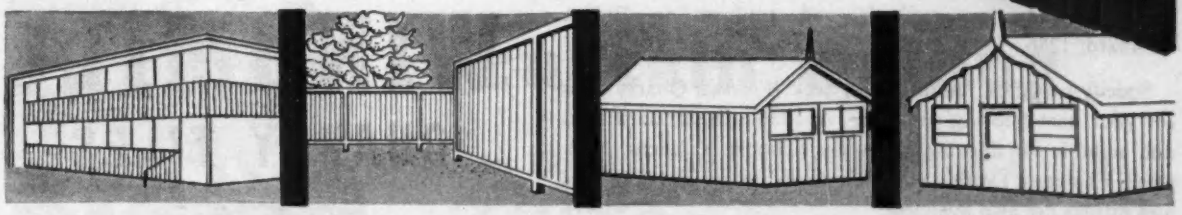

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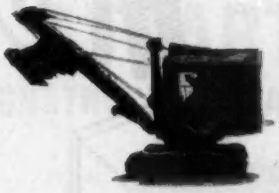

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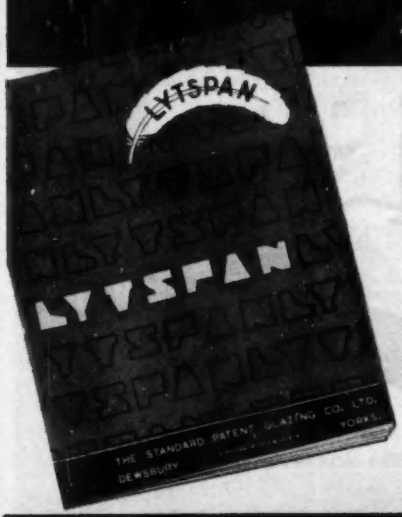


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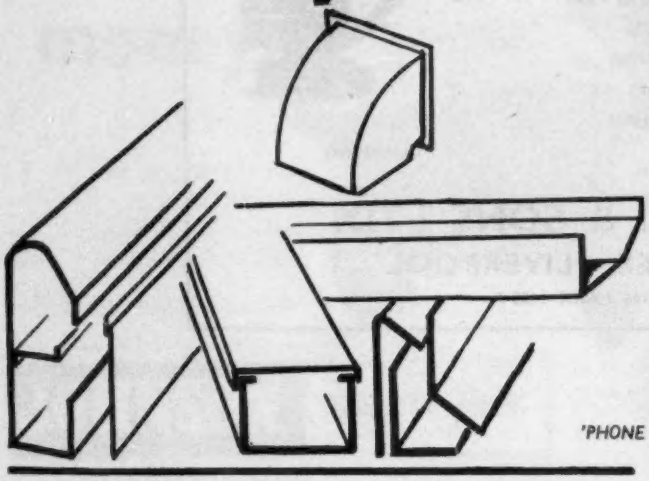
# Sheet Metal Work



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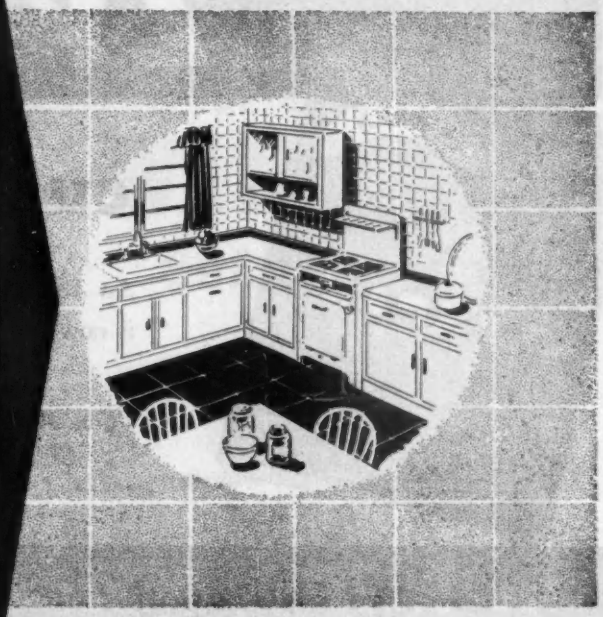

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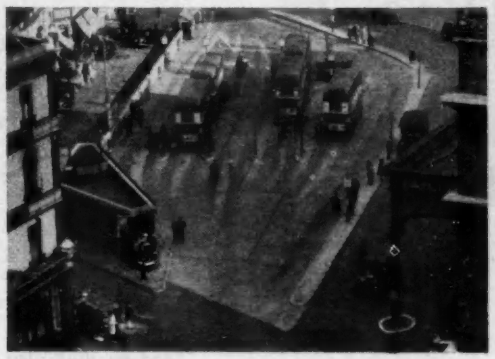

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*—in situ*
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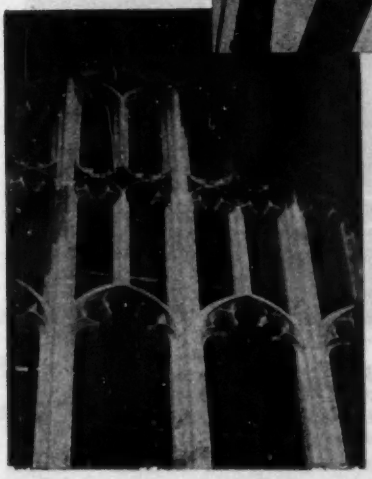
Before restoration



After restoration

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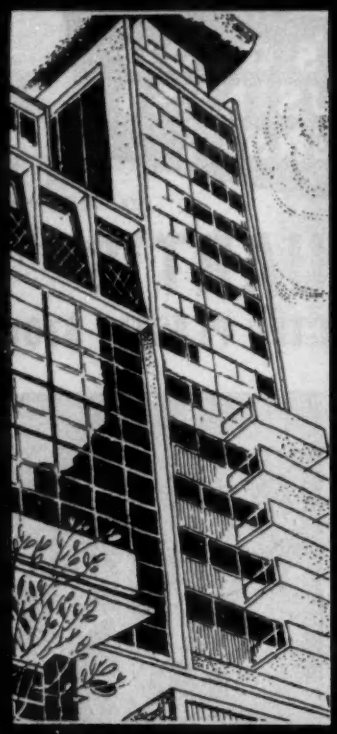

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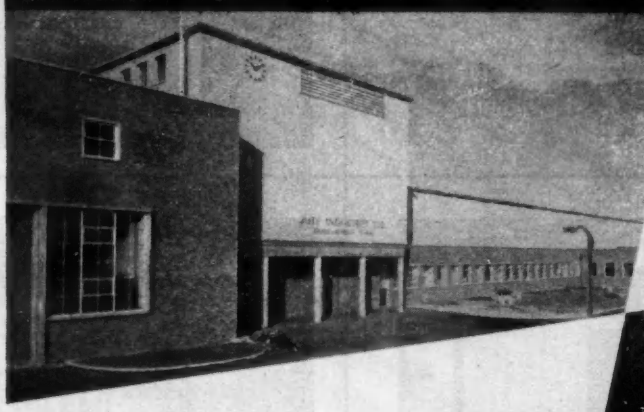

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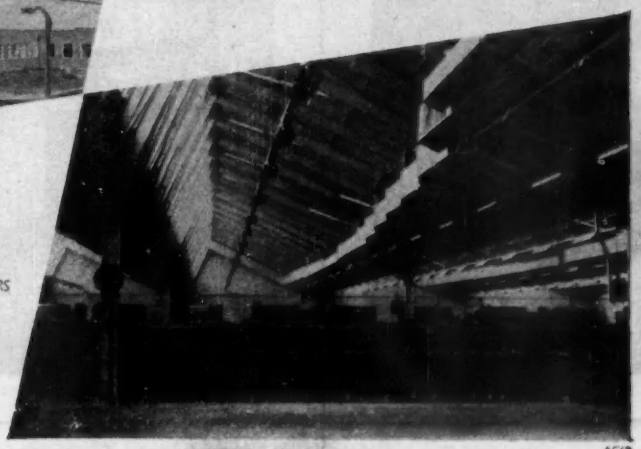

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2 Office block entrance, Crosswall Street, London, E.C.3. Architects: Knapton & Deane, F.R.I.B.A., A.M.T.P.I. Shopfitters: F. Sage & Co. Ltd.

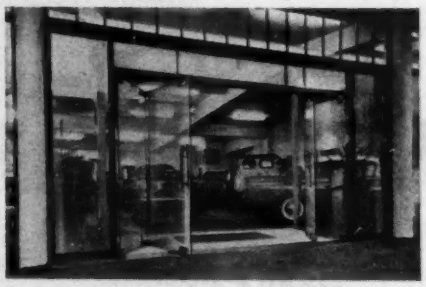
3 Office entrance for Lloyds Permanent Building Society, Manchester. Designed and installed by Garmack & Co. Ltd.

3

4

4 Shopfront at Weston-super-Mare. Architects: Fry, Paterson & Jones, F.R.I.B.A. Shopfitters: Parnall & Sons Ltd.

5 Chicken Inns (London) Ltd., Leicester Square, W.C.2. Shopfitters: Garmack & Co. Ltd.



6

6 Motorcar showroom entrance for Harvey Hudson Ltd., South Woodford, E.18. Architect: V. Fletcher Russell, F.R.I.B.A. Shopfitters: Stewart Fraser Ltd.

7 New store for Messrs. Williams Bros. Direct Supply Stores Ltd., Hatfield. Shopfitting by O. Peterson Ltd.

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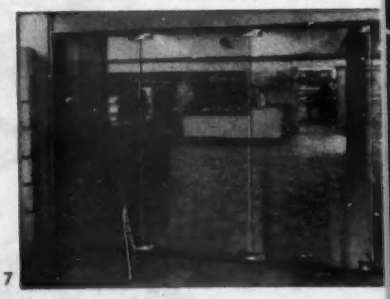

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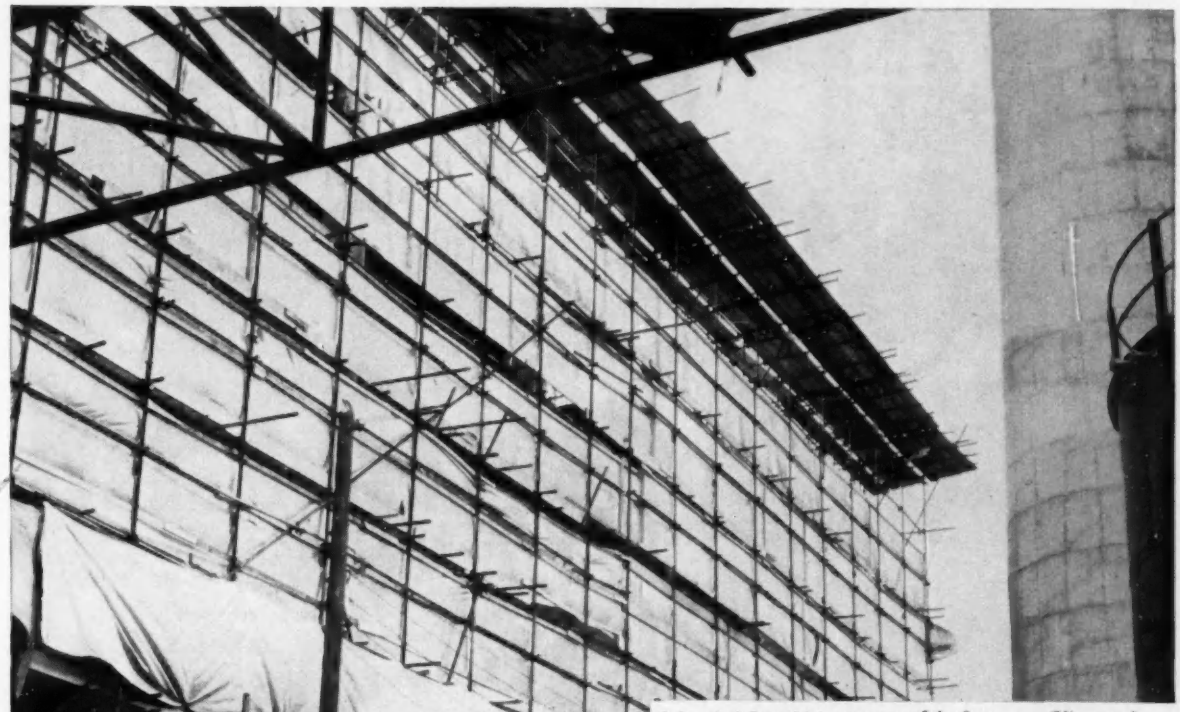

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TRADE MARK

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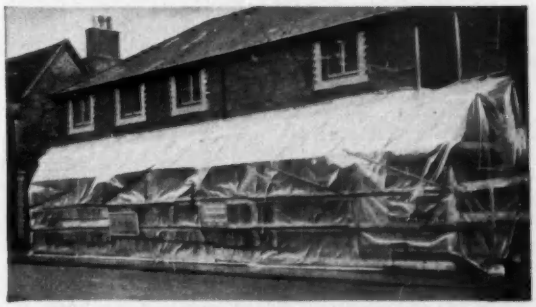

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BV126/1

B

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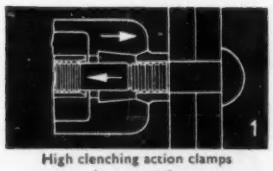
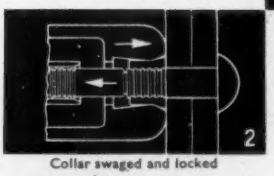
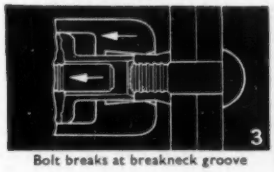


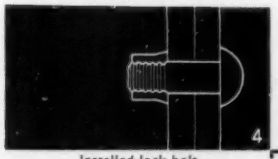

High clenching action clamps sheets together




Collar swaged and locked into grooves




Bolt breaks at breakneck groove




Installed lock bolt

HUCKBOLTS being used by Andrew Air Conditioning Ltd. for on the site assembly of trunking.

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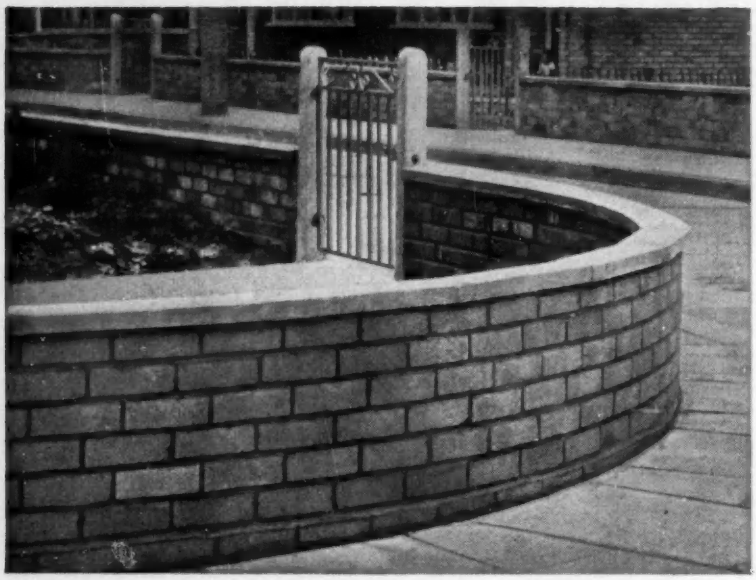
AD28

# FREE-STANDING WALLS AND WEATHERING



The top of a free-standing wall, such as a garden wall, is exposed to very severe weathering conditions. '*Phorpres*' *Fletton bricks are not suitable for this position.* If, however, a properly designed and well-constructed coping is provided, 'Phorpres' Flettons can be used in the body of the wall satisfactorily and economically.

*Slade Green Road Housing Scheme for Crayford Urban District Council.*

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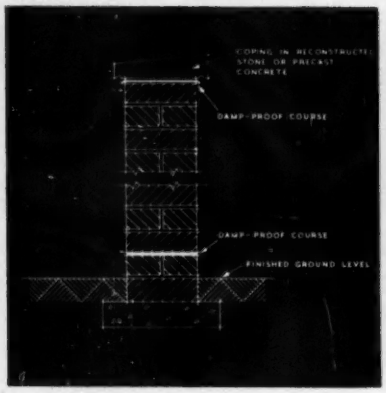


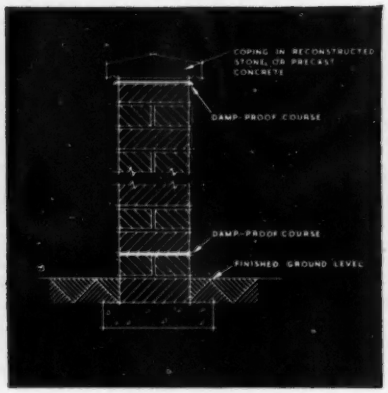


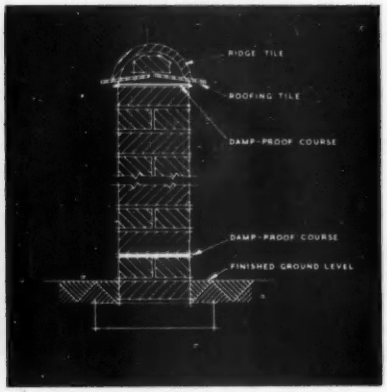


## ...AND SIX IMPORTANT DETAILS

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- The coping units should be properly 'weathered' and should be provided with drip channels on both sides of the wall to shed the water clear of the wall faces.
- The drip channels must have sharp edges and be free from mortar or other obstructions. This is most important at joints between the coping units.
- However impervious the coping units may be, the joints between them will not be impervious to the passage of moisture. Hence a damp-proof course should be provided immediately below the coping units.
- To reduce efflorescence to a minimum a damp-proof course should be provided immediately above ground level.
- A mortar mix of 1 part Portland Cement to 1 part Hydrated lime to 6 parts of sand (all by volume) should be used.

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*General Contractors:*
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S/GP7

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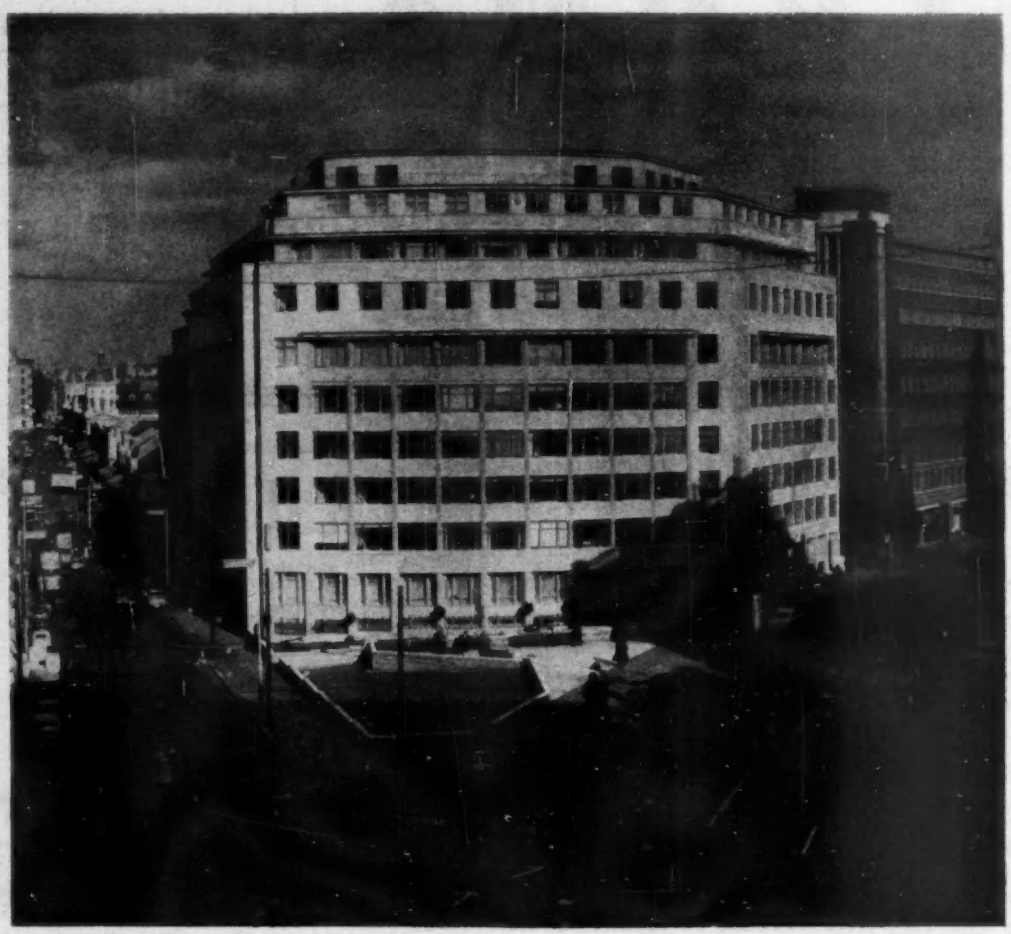

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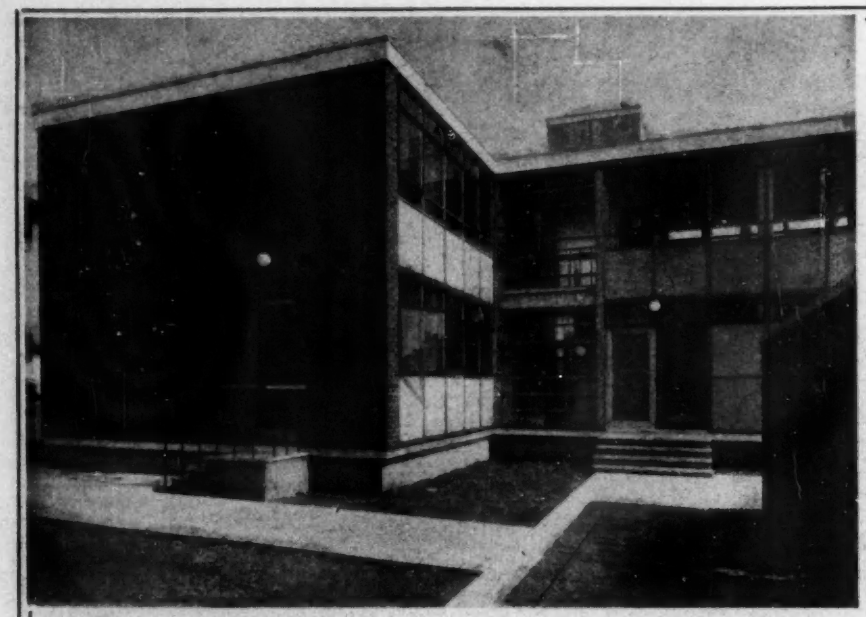

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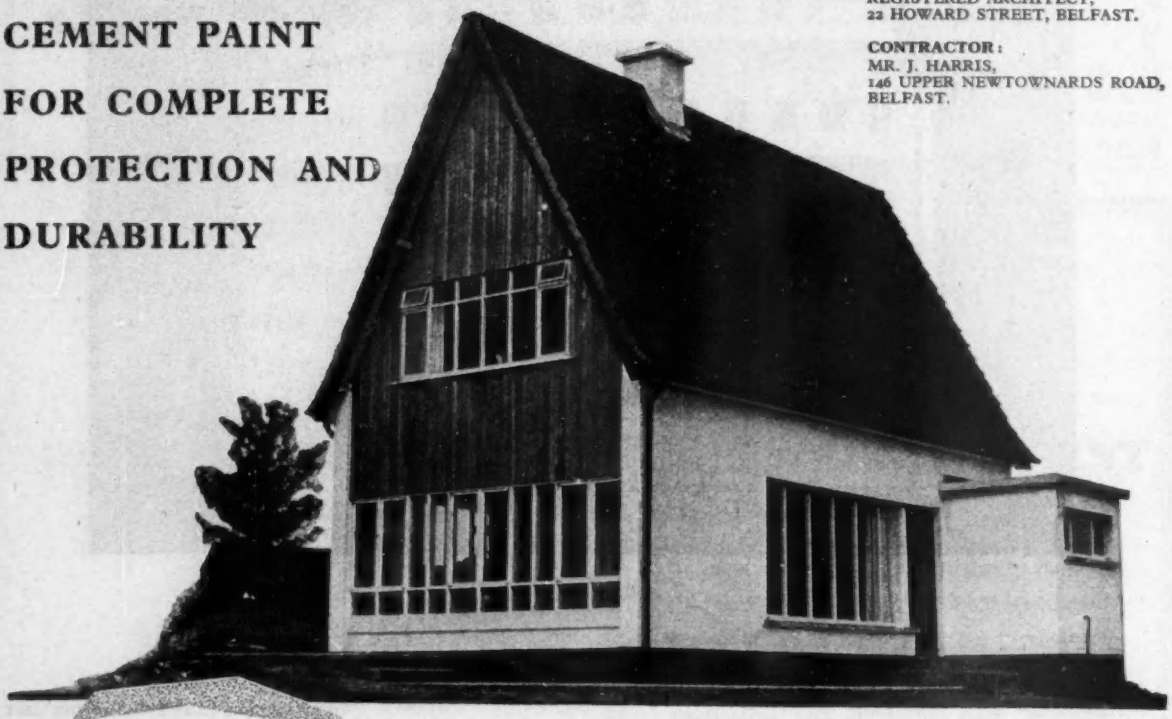

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# THE BUILDER

Incorporating ARCHITECTURE & THE BRITISH ARCHITECT

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*NEWS SUMMARY*


*HALESOWEN BC are to promote an architectural competition for the layout of upwards of 200 multi-storey flats.* p. 893

*THE COURT OF COMMON COUNCIL approved an amendment that the City Corporation be 'not committed' to a Thames-side multi-storey garage.* p. 901

*AN OFFICIAL report on exporting to Canada speaks of the 'large potential market in Canada for UK builders' hardware.'* p. 902

*THE HIGH COURT has ruled that where occupiers of land have not made it clear that a user's licence has been withdrawn, they owe a duty to protect him from any unusual danger.* p. 902

*THE RIBA is to hold a series of three evening discussion meetings following the one-day symposium on 'The Living Town,' on May 22.* p. 896


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## TRAINING FOR BUILDING

THE news, given officially last week, that the Architectural Association School of Architecture has been unable to come to terms with the Ministry of Education in regard to the establishment of a College of Building at the AA makes it the more important that some official information be given on the proposal, with which the London County Council is closely concerned, to set up a College of Advanced Building Technology in London. It has been semi-publicly stated that a site has been selected and that a governing body is to be appointed which will work out its purpose, draw up curricula and appoint a Principal and staff. All these things take time, as is appreciated, but it is hoped an announcement will not long now be delayed.

Joint education for the professional and management sides of building is one of the principal planks on which those who look for a better integrated, more efficient building industry take their stand. Joint education, of course, does not mean that students in architecture, quantity surveying, building management and, possibly, structural engineering shall spend their time in joint lectures, though there are undoubtedly some practical subjects which have a common interest. What it does mean (as Mr. DAVID WOODBINE PARISH truly said during the recent discussion on Current Problems of Building at the Architectural Association) is that those students who are preparing themselves for various sides of building activity shall enjoy a common background to their studies and develop during their student years a respect for each other and a recognition that each in due time will be interdependent on one another. 'Team spirit, which we talk about but have not achieved, must start with the young folk who, in 20-30 years, will be occupying, but in a much more complex world, the positions of responsibility we occupy today,' he added.

As part of a long-term plan for efficient building, the conception of a Staff College of Building also has its place. Apart from residential conferences such as recently completed at Great Missenden, there is no opportunity for post-graduate research or study. A staff college, to which the professions as well as builders could go, is an absolute necessity.

Meanwhile there is much that can be done to improve architectural efficiency on which—and we should face it—the overall efficiency of the whole industry depends, or at least begins. Apart from any re-casting of the content and framework of architectural education, there is one matter on which Mr. Michael Pattrick spoke in the discussion already referred to—that is the difficulty of getting practising architects to devote sufficient time to teaching in schools. This is a real problem to which the answer is not easy to find. If the architectural schools are to develop the practical slant which Mr. Anthony Cox and others stressed in the discussion, it must be found. Only architects fully experienced in private practice can, as Mr. Cox said, 'look at the subjects in a different light, have a different attitude and teach in a different way. It is a matter of thinking of our designs in economic terms and of teaching architecture as one subject, not as a series of separate subjects.' Those architects must be about, and, we shall hope, will come forward. They have a job to do.

**PRIBA's AFRICAN TOUR**

*During the recent tour of Africa by Mr. Basil Spence, a new Chapter of the Ghana Society of Architects was founded at Kumasi. Picture to the far right shows the President with a Ghana architect: between them is Dr. Duncanson, Principal of the Kumasi College of Technology. In the other view are (l. to r.) Mr. Spence, Mr. Henry Kendall, FRIBA, Mr. C. D. Spragg and Mr. C. I. Hobbis, ARIBA*

# Notes of the Week

### *Beerbohm and the 'Anti-Uglies'*

A QUARTER of a century ago Sir Max Beerbohm gave one of his celebrated radio talks entitled 'London Revisited.' It is to be repeated in the Home Service, May 24, between 10-10.30 p.m.

At the beginning he said that he was going to be depressing and invited listeners to switch him off. Those few who may have taken him at his word missed a gentle but damning indictment of the face of London in 1935 compared with that of the 1880's and 90's.

Today when we see London being again refashioned and young students of architecture protesting against the ugliness of the buildings that Sir Max called 'improper workhouses' it is an appropriate moment to listen again to the words of a great student of life.

Denys Gueroult, who has arranged the re-broadcasting of this talk, has the good fortune to live within sight of Bedford-square—one of the few cases that still remain of the London of Max Beerbohm's youth—and he feels that all Londoners will find Sir Max's remarks very relevant today.

### *Rebuilding the City*

THOSE who have to travel to and from the City of London daily, often under conditions of acute congestion, may be surprised to learn that the daytime population of 1958 was estimated at only 353,466 compared with 470,000 in 1939. The present figure is of course rising all the time, as new buildings are occupied, but there is a grain of comfort to be derived from the fact that one of the main objects of the present planning proposals is to ensure that, after rebuilding, the daytime population will not exceed 472,000. It is for this reason that strict control is exercised on the plot ratio of new buildings in the City. These interesting facts concerning the rebuilding of the City are given in the Review for 1958 of the Corporation's Improvements and Town Planning Committee, now published.

The Review goes into considerable detail on this and other aspects of the rebuilding programme, and the text is supplemented by a number of graphs and diagrams which show at a glance the progress being made. Several photographs of large buildings which have recently been completed are also shown. Nineteen major schemes were completed in 1958 and 35 major projects were under construction during the year.

There was a sharp rise in the number of planning permissions granted unconditionally in 1948, which number 177 compared with 122 in 1956 and 125 in 1957. This gives a measure of future building activity. Indeed, the Review emphasises this by its figures for capital expenditure. These are: Capital expenditure on major projects built in the post-war period up to the end of 1958, £45m.; on work at present under construction, £20m.; required if work is commenced on projects for which planning permission has been given, £29m.

These figures make heartening reading for those who recall the years after the war in which large areas of the City were allowed to remain waste with no attempt at serious rebuilding, and promise well for the future prosperity of London and indeed the whole country.

### *Big Ben Centenary*

MAY 31 will be the centenary of the Great Clock of Westminster, popularly known as Big Ben, though the name rightly belongs to the great bell which first struck the hour in July, 1859. In a debate in the House of Commons it was decided to call this bell after the then First Commissioner of Works, Sir Benjamin Hall, nicknamed Big Ben by his colleagues because of his immense physique. The story of the clock and its bells is told in the May number of *State Service* in an interesting article based on notes prepared by Mr. A. W. Hattersley, MBE, AMIEE, Resident Engineer at the Palace of Westminster, 1927-57. It is a complicated story of differences among all the parties concerned, of delays, mistakes and mishaps (the bell cracked and had to be recast), but the clock has proved to be an excellent time-keeper and a first-class piece of workmanship. It was designed by Edmund Beckett Denison, QC (afterwards Lord Grimthorpe, less esteemed as the restorer of St. Alban's Abbey), and made by E. J. Dent & Co. Big Ben was recast by George Mears, of Whitechapel.

### *Yerbury Foundation Lecture*

THE distinguished Danish engineer, Jorgen Varming, will give the first Yerbury Foundation Lecture in London on May 20. His subject is 'Mechanical Services and Architecture.' The meeting will be held at the TUC Building in Great Russell-street, at 6.30 p.m.

Jorgen Varming's theme is the need for a closer understanding between the architect and the mechanical services consultant. He believes—and who will not concur?—that both architect and specialist must strive to restore sympathy and cohesion to their working relationship, so that vital mechanical services become an integral part of modern architecture.

Those attending the lecture are afterwards cordially invited to the Members' Rooms at the Architectural Association, 36 Bedford-square, WC1, where it is expected that informal discussion of the subject will continue.

Admission will be by ticket only. These are obtainable from the Hon. Secretary of the Yerbury Foundation at 36 Bedford-square, WC1.

### *Private Housing at Coventry*

LAST YEAR the Coventry Association of Building Trades Employees and the Coventry Society of Architects made a joint statement to the Press on the need to raise the standard of private house design. With the object of supporting and encouraging this movement, the Architectural and Planning Department of the City of Coventry, under the direction of Mr. Arthur Ling, BA, FRIBA, MTPI, the City Architect and Planning Officer, has produced an excellent booklet entitled 'Good Design Saves Time.' Useful notes on the layout of estates and the design of houses are interleaved with several pages of illustrations (plans, perspectives and photographs) of well-designed private schemes lent by Grenfell Barnes and Hargreaves, AA/RIBA; George Calverley and Sons (Contractors), Ltd., chief architect James L. Heap, ARIBA; Clifford Culpin, FRIBA, MTPI; Paul Mauger, FRIBA; and Span Developments, Eric Lyons, FRIBA, MSIA, architect.

It is pointed out that the booklet has been prepared in order to prevent needless disappointment being caused by the rejection of a submitted scheme. 'It is the intention of the Council to give every encouragement to good architecture to secure an improvement in the appearance in the buildings which are being created, so that the highest possible standard of design may be achieved in all parts of the city.' We learn that the Department has made an impression in this field and is beginning to get the support of the builders. The booklet is issued from Bull Yard, off Warwick Row, Coventry.

# RECENT MEXICAN ARCHITECTURE

## *A Talk by Felix Candela*

**From a Correspondent**

PROFESSOR FELIX CANDELA, the eminent Mexican architect-engineer, on May 5 delighted a crowded hall of architects and engineers in London with a brief outline of his philosophy and a description of the gradual evolution of his style of building, which he illustrated by a large number of photographs of structures he has built over the last ten years in Mexico.

Professor Candela began by describing something of his background. Although educated in Spain as an architect, he denied that this was due to any deep-rooted desire to design buildings, claiming that he might equally well have become a chemist or a physicist; it was quite by chance that he became an architect, although he admitted that when the opportunity later arose to use his training and develop as he wished, he thoroughly enjoyed building the structures for which he had been responsible.

His architectural training was followed by an interval for the Spanish Civil War, and then, after a period in a concentration camp, he went to Mexico. He counted himself extremely fortunate in working in such a country—a country which is developing in an incredible way: 'a country in which almost anything can happen!' His clients are not particularly worried about the form their structure takes, as long as it is economic, and the shells he builds are usually competitive in price with other forms of construction; occasionally, however, he gets a chance to be extravagant—and he gave the impression that he always took his opportunities! There is no doubt that he enjoyed building his anticlastic shells. Although trained as an architect, he is in business in Mexico as a builder, and most of his structures have been erected in collaboration with other architects.

Felix Candela

Shell structures had interested Professor Candela even in his student days, at which period the first shells were being built in France and Germany. He had then studied the French and German literature on shells, but decided that the subject was too difficult. After ten years in Mexico, however, life had become a little easier for him, and he returned once more to the subject. His whole outlook had changed by this time; he was able to read the literature far more critically. 'When one is young one believes that there is only one true way to approach a problem. As one gets older, however, one begins to realise that there is very little that one can say is strictly "the truth"; there are many "truths" in the same problem, and the selection of the best approach to a particular problem is purely a personal choice; no matter how prominent the authority who writes a paper there is no need to believe everything in it; each reader must make his own judgment.'

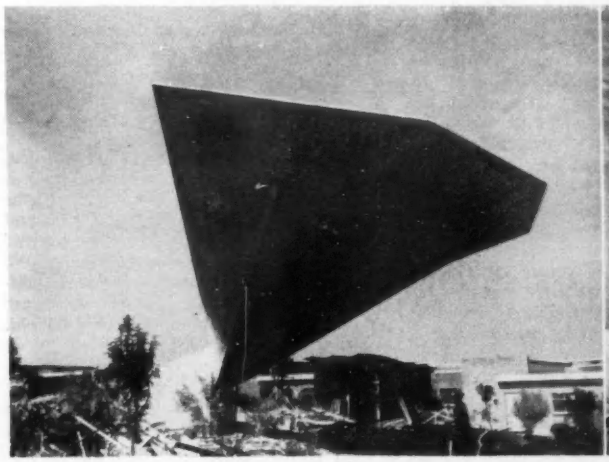
### *Seeing Essentials Clearly*

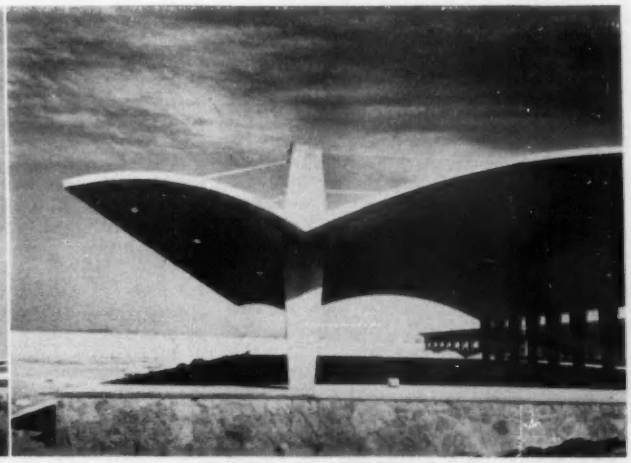
Professor Candela also affirmed his belief that one of the most important qualities of the human brain was the ability to see clearly the essentials of a problem. Too many authors believe that it is best to present a subject in a complex manner, so that those who read the papers will think the author learned. Professor Candela felt exactly the opposite; 'if one really does know something about a subject,' he said, 'no matter what the subject may be, then one sees the essential matter to be really very simple; the reality is always very complex and full of inter-connections with many other things, but when solving a problem one must clear away all that is unnecessary and irrelevant, and leave only the essential and the very simple.' He felt that this was the most important approach to any problem in any field.

Professor Candela then proceeded to trace the various steps in the development of the apparently complicated structures he has built—structures which, he maintained, were in fact very simple. At first he merely copied the work of others; he has never been afraid of copying anything; if he saw something he liked he built something similar, making a few small changes, and learning gradually by his experience. The first shell structure he built in Mexico was copied from the Ctesiphon vaults such as were built in England during the war. Then a few short barrels, long barrels, domes; and then he discovered—'by chance as usual'—the hyperbolic paraboloid, and after erecting a few of these he began to see more clearly the differences between the various types of shell.

'It is always simple to explain the way you have done things after you have done them; but in most cases,' maintained Professor Candela, 'such explanations are completely untrue, because one does not know exactly how one has reached a certain point in one's thinking. When it comes to be explained, it can be seen clearly as a whole, but it is not the conscious mind which has gone through all the steps; the logical process is always an afterthought.' As such an afterthought he could now explain that the word 'shell' had been often misused; many of the structures known by this name were not true shells. Any vault, any barrel, any singly curved surface was not a true shell, and would more appropriately be known as a 'laminar' structure. A true shell is a surface which can withstand the stresses in the surface without any bending, and one of the conditions for such action is that the surface must be doubly curved.

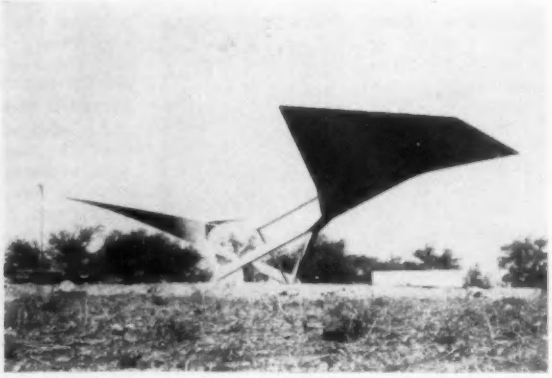
Professor Candela continued by defining the two fundamental types of doubly curved shell: the synclastic shell, in which the curvature is always in the same direction (as in a dome), and the anticlastic shell in which the curvature is





A bandstand, Mexico, and (*right*) custom shed, Mexico City. By Felix Candela (consultant for custom shed, Carlos Recamier)

upwards in one direction and downwards in the other (i.e. saddle-shaped). 'From the point of view of structural behaviour both types are of considerable interest,' he maintained, 'but the synclastic type is very expensive to construct, since all the formwork must be curved. On the other hand some anticlastic shells possess the surprising property of having straight lines contained in their surface; both the paraboloid and the hyperbolic paraboloid have the property of having two systems of straight generators.' The paraboloid is well known to us all in the familiar form of power station cooling towers; the hyperbolic paraboloid is the form which has appealed to Professor Candela, and the one in which he has specialised. As he went on to explain, this property of two systems of straight generators enables us to solve the equations of equilibrium of membrane stresses. 'Hyperbolic paraboloids thus satisfy all the conditions required: they are easy to build, they are easy to calculate, and they can be put together to form a large variety of shapes. They are flexible, in the sense that it is possible to use them to cover many different types of space in a variety of ways.'



Entrance in Tequesquitengo, Mexico. By Candela

In his modest way, Professor Candela said that he counted himself extremely fortunate in working in Mexico in that he was being pushed from every quarter to build these anticlastic shells: he asserted that he spent most of his time telling people he could *not* build the things they wanted. He was always being pressed to do something a little different, and he thought that this might have contributed a freshness to his work; he avowed that he was inherently lazy—although he certainly did not give this impression at his lecture!—and that it was only in this atmosphere of continual pressure from clients that he was able to work at all.

Professor Candela then proceeded to show photographs of a number of the structures he had built, illustrating his gradual progression from the simplest forms of singly curved shell—the barrel vault and the northlight—through the dome and the conoid, to the hyperbolic paraboloids for which he is famous. He showed how his early umbrella shells were formed by simply putting four distinct anticlastic shells together and supporting them in the middle, and he emphasised the simplicity of the structure, all the formework being made up of straight timbers. Warehouses, garages, even low-cost housing has been built in this way. As slide followed slide, and the structures, although simple and pleasing in form and line, appeared to become more and more complicated structurally, Professor Candela continually stressed the point that they were still basically very simple—still composed of hyperbolic paraboloids, sometimes this way up, sometimes that, still made on formwork composed of straight timbers.

He referred to the very difficult soil conditions existing in Mexico City, which stands on a silt of very high water content, in which buildings are liable to sink two or three feet in a year! One very logical solution to the problem of providing a support for columns in such conditions was to sit them on umbrellas in the ground, which were extremely effective in spreading the concentrated vertical force transmitted by the columns.

Earthquakes were another of the problems which faced the builder in Mexico, but although there were one or two structures for whose safety he was rather concerned after the recent bad earthquakes there, he had been relieved to find that in fact all the structures he had built had not suffered any damage due to this cause. The only damage which had occurred was due to the flexibility of the steel supporting column of an asymmetrical cantilevered canopy; this swayed so much as to break a window in the façade of an adjacent building! They had since encased the column in concrete to ensure that this did not recur!

Professor Candela showed how the surrealistic architectural feature dominating the Plaza de los Abanicos (Square of the Fans) at Cuernaraca had developed from the cantilevered canopies, again stressing the simplicity of the essential structure in spite of its apparently complicated form. From night clubs to churches; from entrance canopies to warehouses; all had been covered by his hyperbolic paraboloids; and yet the variety was unending. Nevertheless this modest man disclaimed any originality; 'unless,' he said 'it was the originality of the man who copied the work of others—without success'!

Certainly all those who were privileged to hear Felix Candela will long remember the refreshing way in which he approached his problems, with his keynote of simplicity. Refreshing indeed it was to meet a man who so obviously enjoys what he is doing—and a man who does it so well.

* The lecture was arranged by the Joint Committee on Structural Concrete in association with the British Council.

# BOOK

**** Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s., 9d.; over 10s., 1s. 6d.) should accompany the order.*

OUR ARCHITECTURAL CONFUSION. By Louis La Beaume. (New York: Vantage Press Inc.) Price 3.00 dollars.

LOUIS LA BEAUME is not only an American architect, he is also an entertaining, a sprightly, and a witty American writer. His series of essays, collected under the title of 'Our Architectural Confusion' shows him, moreover, to be a serious thinker. And what he is thinking about, as his title implies, is the variety and confliction of opinion which has bedevilled the arts generally, and architecture in particular, over the last hundred years or so, in the USA.

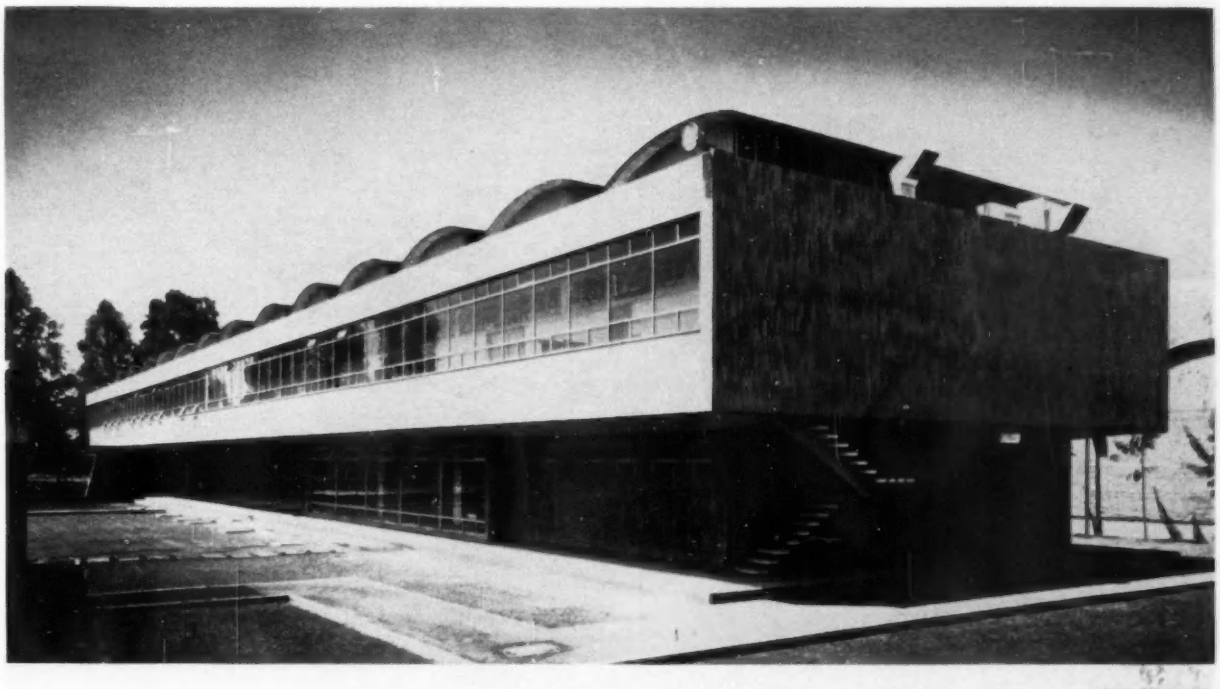
During that century of time American architecture has travelled through a multiplicity of fashions with bewildering speed; if it shows signs today, as it definitely does, of coming round to the straight and narrow path of functionalism and all that the author is by no means sure that that is the path where the benefits of architecture most profitably lie.

Not that Mr. La Beaume is a reactionary, a die-hard, or a mere sentimentalist; far from it. But he has got it firmly into his head, and thank heaven that somebody has and is determined to keep it there, that architecture is something more than a structural possibility and a materialistic convenience. 'The Modernists,' he says, 'seem to have turned their backs upon the Muses.'

To quote again: 'Engineers have always loved the lolly. They've always loved a straight line too, as the shortest distance between two points and the easiest to draw, with proper mechanical instruments. They never could manage mouldings or ornament of any kind. Carving pained them: detail bored them: composition or proportion flabbergasted them. Few of them had ever cared how a thing looked, as long as it stood up. Flat roofs and factory sash were a cinch, and the cantilever, oh, the cantilever, was right down their alley. Of course they joined the movement, for here was the kind of stuff they could do with one hand tied behind their backs. They cheered, they jeered. They said that architects had been thinking too much of appearances and not enough of realities . . . we'd been thinking of beauty, or majesty, or dignity, when we should have been thinking only of function. This is a shattering charge. . . .'

The author, then, is no mere functionalist, using the word in its narrow sense. Nor is he an eclecticist, harking superficially to the outward forms of the past. What he is and what he wants he seems to gather up and summarise in one prophetic sentence. 'We shall have, indeed, a new architecture, different from the old as the old styles are different from each other but, like the old, rich and fragrant, with all the poetry of man's experience, and the promise of his possibilities.'

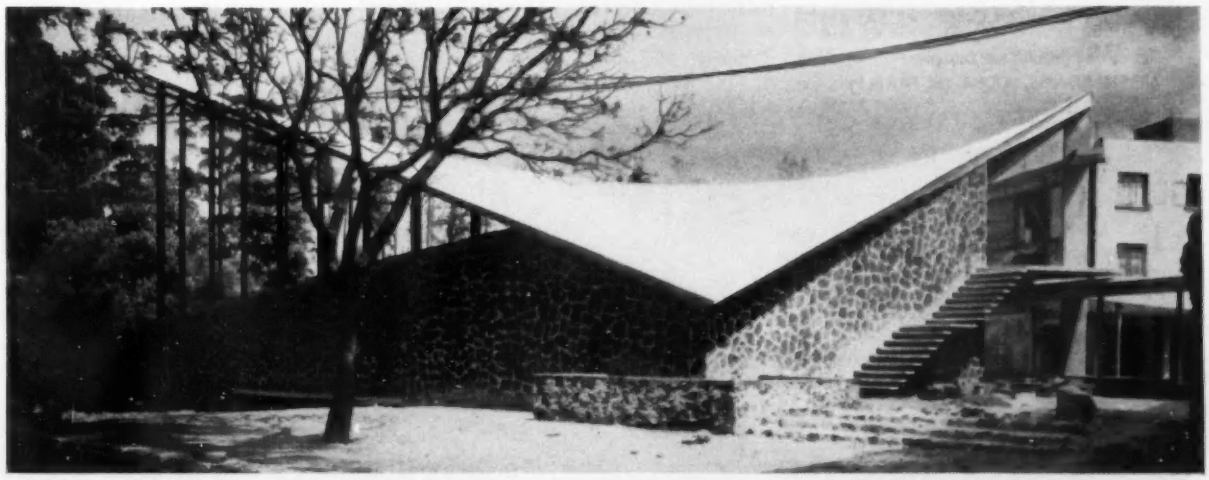
That is the future which the author sees and this is a book which everyone suffering from the prevailing architectural anaemia should read. JAMES BURFORD.



## *Recent Mexican Architecture*

above : *The CIBA Laboratories (1953-54). By Felix Candela in association with the architect Alejandro Prieto. This is the office block and the unbroken end wall is covered with a mosaic mural*

right : *A restaurant at Xochimilco, Mexico. By Felix Candela*



The chapel of Our Lady of Sclitude, Mexico City. By Felix Candela in association with Enrique de la Mora

above : *A view of the model looking north from the Malacca Straits*
below : *A sketch of the interior of a new Church of England to be built on a central site*

# *MARRIED QUARTERS at Malacca, Malaya*

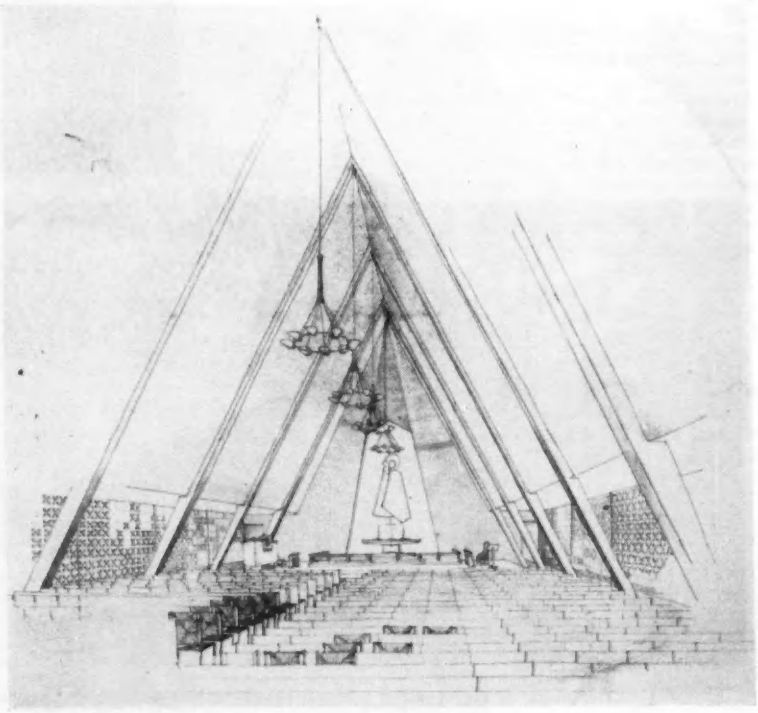
*Architectural, Engineering, Planning and Surveying Consultants:*
RAGLAN SQUIRE & Partners

*Associate Housing Designer:*
VERNON Z. NEWCOMBE, ARIBA, AMTPI

*Church and Beach Club Designer:*
RALPH ADAMS, ARIBA (of FARELF)

*Quantity Surveyor:*
W. J. F. TILLYARD

IN April, 1956, the Architects were approached through their Singapore office by FARELF (Far East Land Forces Command of the War Office) as to whether they could immediately undertake the land survey and master planning of this £8,000,000 project for the Commonwealth Forces at Malacca on the west coast of Malaya, some 100-odd miles north of Singapore and, further, whether they would act as engineering consultants on roads and services and as architectural consultants on some of the buildings. The answer was 'yes' and a start was made immediately.



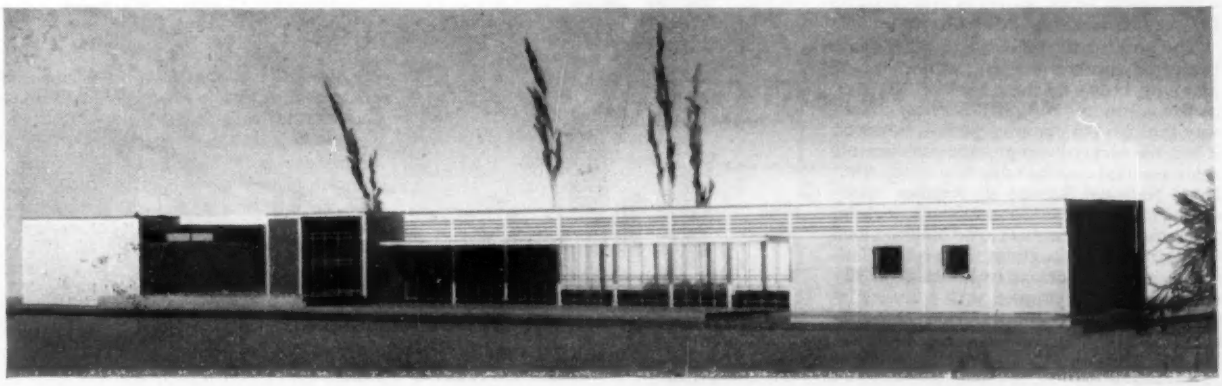
A first reconnaissance disclosed that the land consisted of 2,000 acres of hilly ground bearing a mixture of derelict paddy fields and rubber plantation which was fast returning to a wild jungle state. In fact, recent growth had become so thick that during Mr. Pitcher's (Raglan Squire's engineering partner in Singapore) first reconnaissance he got lost and had to spend a night in the jungle before he could find his way out.

The land survey team consisted of Mr. Kenneth Gouday and a team of locally trained personnel. The land was surveyed in sections according to priorities and the total time taken over the survey was about four months. Work then started on master planning.

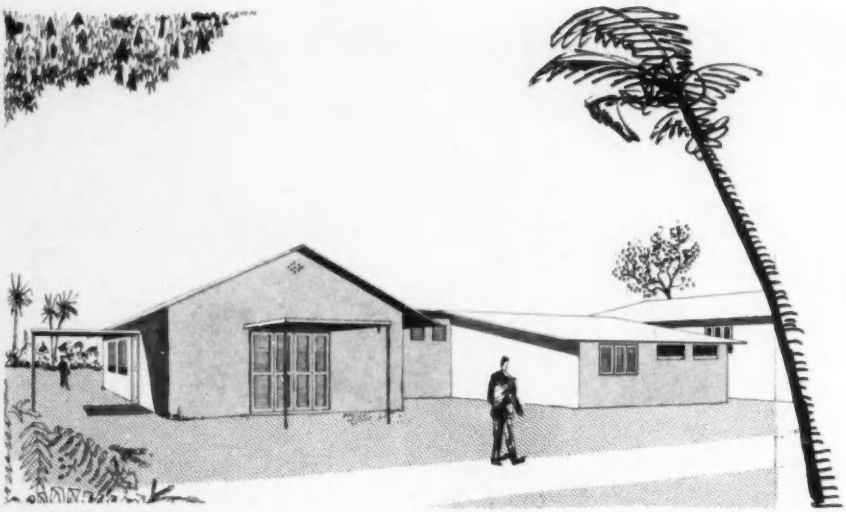
The first decision was the location of the main access spine road and this was located as near as possible down the centre of the site commensurate with the contours. Another early decision was to site officers' and other ranks' housing as near the coast as possible and this element was placed in the south west corner of the site with its own beach for officers' and other ranks' clubs. Barrack housing was sited north of the main access road and divided up into various infantry battalions, field regiments, etc.

The location of the central community area, sports areas, workshops, MT sheds

*A model of the officers' beach club*

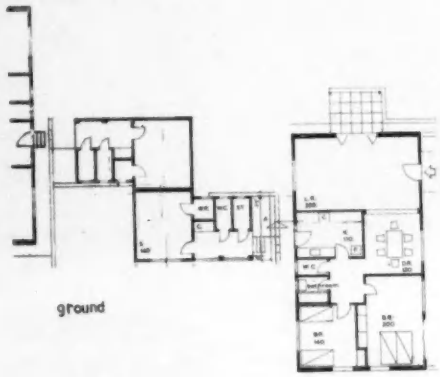


# *Married Quarters at Malacca, Malaya*

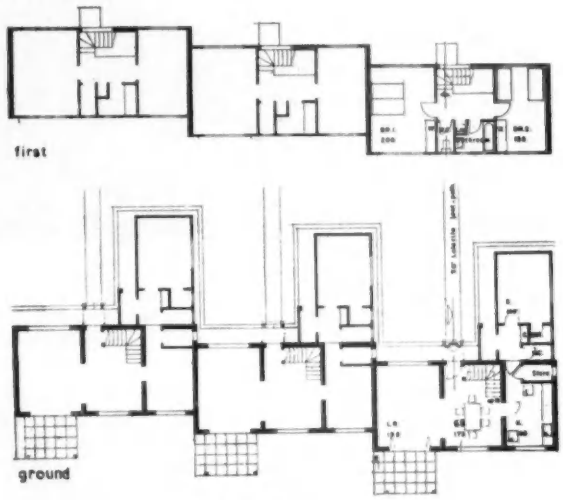


*TYPE B1*
*Other ranks' married quarters two-bedroomed bungalows*

PLAN—Type B1



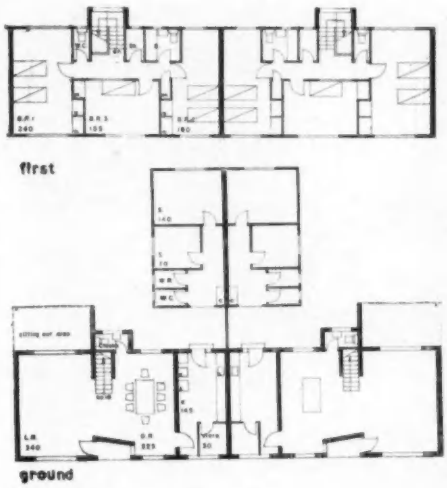

PLAN—Type B2



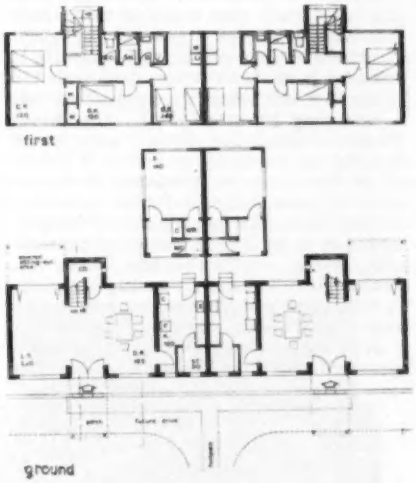

*TYPE B2 Other ranks' married quarters—two-bed-roomed terrace houses*

and the like was all worked out in association with 'FARELF.' It was decided to locate the hospital in the north west section of the site, well away from the remainder of the camp and with its own beach. As the camp is some distance from the town of Malacca a generous provision of beach clubs, sports fields, a cinema and churches for various denominations was made.

The housing for officers and other ranks presented another problem, as the original planning brief was based on an assumed continuation of National Service. Halfway through the planning period, however, it became necessary to provide considerably more married quarters due to a changeover from National Service to Regular Army occupation and the Government's decision to enable regular soldiers to be accompanied by their wives throughout the world. This meant a great increase in housing density which had to be coupled with a feeling of spaciousness, and ample room between houses for the prevailing wind to blow.



*TYPE V*
*Married officers' quarters—Detached or semi-detached three-bedroomed houses*



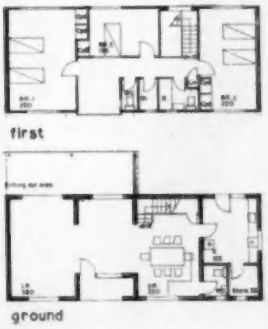

*TYPE C*
*Other ranks' married quarters—semi-detached three-bedroomed houses*

## *Married Quarters at Malacca, Malaya*

This has been achieved by a mixture of single-storey, two-storey and terrace housing. It is intended that generous planting will be arranged in the housing areas.

The house plans themselves are simple and are based on the latest experience of high density housing in UK, coupled with the tropical requirements for maximum through ventilation, provision of terraces and sitting-out spaces, servants quarters and the like. Only the backs of individual plots will be fenced, all fronts being left open to the road.

PLAN—Type IV




*TYPE IV*
*Officers' married quarters—detached three-bedroomed houses*

# ROYAL ACADEMY SCULPTURE, 1959

***Reviewed by Marjorie Morrison***

IF the Royal Academy Exhibition goes on improving each year, as it seems to have done since the War, the day will arrive, round about 1980, when the critics will have nothing whatever to grumble at (and how miserable they will be), and the Academy will not be like the Academy any more. But that day is far enough away, so, with many happy years of carping still ahead, let us try to decide whether the sculpture is keeping up with the painting in this year's advance.

### *Good Display*

A stroll around reveals that things are certainly better from a display point of view—the grim Lecture Room is not quite so full and all the very small things have been kept for the Showcases. Among the varied mass of work shown there are quite half a dozen thrills, some technical triumphs, many in the pleasant-to-have-about category and fewer than usual of those dull, commonplace lumps of expensive material. However, in spite of the high standard, it must be confessed that on the whole the outlook is still doggedly representational.

Awarding the accolade for the Worst Picture, or Sculpture, of the Year is rather fun but too frivolous, so I went in search of the Best, or most interesting, Sculpture of 1959, and found it in the centre of Gallery VIII. The figure is called 'Youth,' and is by a, so far, unknown, and presumably young, sculptor called James W. Butler. It is odd and interesting in design. A naked boy leans forward on a section of railing with hands held up in supplication—or it may be in frustration as the fingers are clenched. The fine seriousness and emotion expressed by this single lonely figure stand out in an exhibition where the bias is perhaps anti-romantic. The figure, in cement, is figuratively treated and the technique quite unobtrusive, but it is neither the treatment nor the technique that gives this work its quality but simply the ability of the artist to reproduce his imagination in the vision of the beholder.

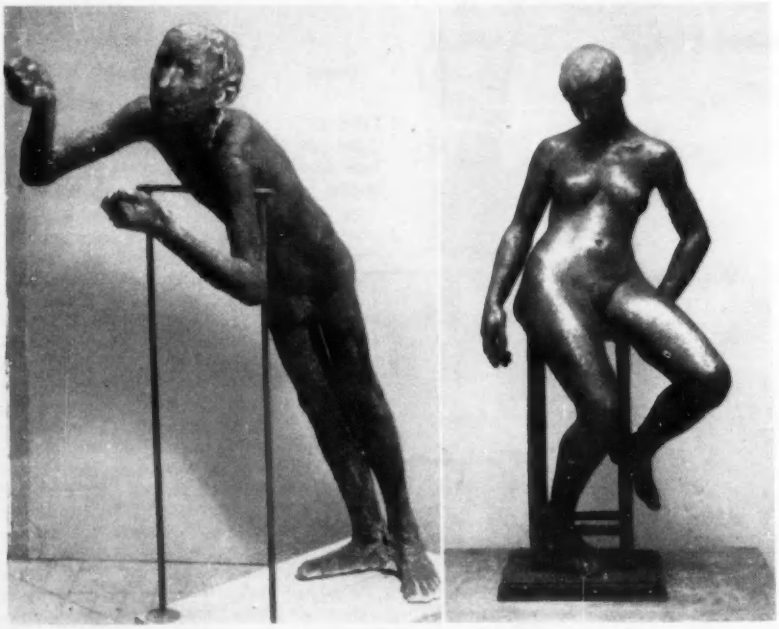
In the Lecture Room you may find that a head in marble, called Janet, attracts by much the same quality, and by a strange coincidence you will find that it is also by James Butler.

Two other works that come into no special category should be sought out. The first is given the very obvious title of 'Seated Girl' (Uli Nimptsch), and is as different from the figure that we have been discussing as it could possibly be. It is, above all, an accomplished thing by one who is beyond technical worries. The subject is simple—a girl sitting on a high studio stool, with her feet on the cross-bars to keep her from sliding off. This could have looked like a life class study, but the superb modelling of the figure, the rhythm of the composition and the divine calm of the whole thing puts it away into the top class.

'Old Ladies on Park Bench': group, by Jack Greaves

The other one not to be missed is 'Old Ladies on Park Bench' by Jack Greaves—very different again. It belongs to a class of modern *genre* sculpture, depending on realism and character, satire mixed with sympathy and a rough-surfaced shaggy technique. These old ladies are both sad and funny; one slouched back behind her newspaper and the other sitting bolt upright, the toes of her deplorable boots turned in and clutching the genteel handbag in her lap.

Now we come to what should be of great interest to us—sculpture to be used in connection with a building. The field seems rather barren this year but there are two or three things not without interest, such as Harry Phillip's 'Risen Christ'. This great silvered figure is intended for St. John's Church, Causton-street, Westminster. It looks as if it would carry well (here we are too close to it), and it will surely gain when seen in its proper setting. The figure realistically treated has just a flavour of Epstein. On the wall opposite there is another religious subject, a 'Mother and Child' by Willi Soukop. This does not appear to be a commissioned work for any building but it certainly merits a home in some church or convent. It is a contrast to the 'Risen Christ' being very much designed, formal, severe and calm but in spite of its formality it seems to have more feeling than the other. Siegfried Charoux can always be relied on to produce something that stands out for its strength, unity of design and architectural quality. This time he shows a Group, for the LCC Quadrant Estate, Highbury, consisting of two Siamese-twinlike workmen sitting on a bench, literally shoulder

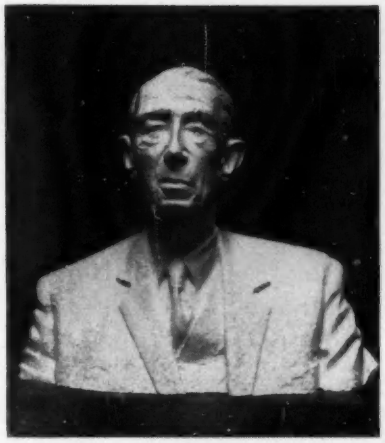


'Youth': figure in concrete, by James W. Butler. *Right*: 'Seated Girl': statuette in bronze, by Uli Nimptsch, ARA

to shoulder—a most amusing composition of arms and legs.

Portraits come last but by no means least—there seems hundreds of them and it is invidious to pick out two or three when the standard is so high all round, but go and see 'David Gascoyne', by Gertrude Hermes; 'Alexander', by Dora Gordine; 'Dame Margot Fonteyn', by Maurice Lambert; 'Head of a Printer', by Jack Greaves—they are all first-class. The important Presentation Bust is a problem on its own and David McFall seems to solve it rather better than anyone else. His bust of W. Godfrey Allen, sometime Surveyor of the Fabric of St. Paul's, is a case in point. Here he has gone deeply into character and caught the essence of the man without losing dignity and monumentality.

The valedictory piece of advice is for those who like a display of feminine virtuosity—go to the Showcase in Gallery IX, where the work of Marion Morris and Audrey Blackman is as exquisite as ever.



'W. Godfrey Allen': bust, by David McFall, ARA

## CORRESPONDENCE

### *An 'Early Modernist'*

To the Editor of *The Builder*

SIR,—In a recent letter (*The Builder*, Nov. 2, 1958), under the heading 'The Puzzling Robins and Robson's,' the above-named architect, whose name in full was Philip Appleby Robson (1871-1951), was mentioned as the son of a famous man, Edward Robert Robson. Philip A., however, merits special study; he was one of the outstanding contributors to what has been called (for want of a better name) the 'early modern movement' who has perhaps not received adequate recognition.

Much of his work seems to have escaped publication. His first known recorded work seems to be St. George's Hanover Square Schools, South-street, Mayfair, adjoining its junction with Farm-street, and backing on to Mount-street Gardens (c. 1898-99—the tablet on building gives latter year). It is an ambitious work; although in some respects—such as the horizontal and vertical banding of the façade—it is allied to T. E. Collcutt's style, it has several original features, including the broad, heavily-mullioned bow windows flanked by pilasters and protected by overhanging foliage-carved cornices. When the writer first saw it, and noted it in his survey of Mayfair (*The Builder*, 1956, July 27, p. 134), he surmised that it might be by P. A. Robson, and this proved correct.

After a country church another extensive undertaking, St. Gabriel's College, Cormont-road (facing Myatt's Park), Camberwell, followed (1899 foundation stone, c. 1900 first part opened, chapel dedicated 1903—see L.C.C. 'Survey of London': *St. Mary Lambeth, southern area; Architect* 1900, Feb. 16, p. 112 and pl.; *The Builder*, 1905, Nov. 18, pp. 531-2 and pls.); the writer was attracted to this in boyhood. Someone said that only the chapel was correct—meaning that only that part followed approved stylistic precedents!—but the rest is less outstandingly original than some other works.

The third important work, the Eastbourne Public Library and Technical Institute, now followed (1903 foundation stone, 1904 opened—information from Librarian; *The Builder*, 1904, Sept. 3, p. 252 and pls.); the front, with its immense top-floor studio windows and segmental cornices over them, impressed the writer many years ago; the building was war-damaged. His principal church came next, St. Andrew, Catford, London, 1904-onward (Goodhart-Rendel card-index), with its fine fittings (*The Builder*, 1921, Apr. 15, p. 473 and pl., Apr. 22, pp. 502-3, 510); 'l'Art Nouveau detail' is Dr. Pevsner's comment. P. A. Robson's work is surprisingly fresh and functional for the time and he deserves to rank with Voysey, Harrison Townsend and others as one of the originators of the new approach.

H. V. MOLESWORTH ROBERTS.

Wallington, Surrey.

### *Back to Tradition?*

To the Editor of *The Builder*

SIR,—'Is architecture doomed to be the sport of changing fashions' asked a correspondent in your last issue. It is a question that cannot be answered by a plain 'yes' or 'no.' Architects, being human beings and not automata, will continue to act according to their lights. We should expect a certain increase in uniformity owing to the growth of mass-produced systems of cladding and curtain walling, but there should also be a good proportion of progressive individualism, together with an assortment of the merely fashionable, the pretentious and the dull.

Although, as your correspondent reminds us, Lethaby talked about reaching out to the 'fairest horizon' he did not regard this as a sort of fixed objective at which everyone should aim. He was concerned that the opportunities presented by new methods of construction should be accepted, but he added: 'There is not one absolute external form of beauty but rather an endless series of changing modes in which the universal spirit of beauty may manifest itself... change of form is one of the conditions of its continuance.'

The only justification of classical principles of design to-day is in connection with load-bearing construction. Where classical principles are followed there should be no mere copying from the past. A contemporary building, whatever the construction adopted, ought to be unmistakably of our own time.

NESTOR.

### *Fire Resistance of Straw Slabs*

To the Editor of *The Builder*

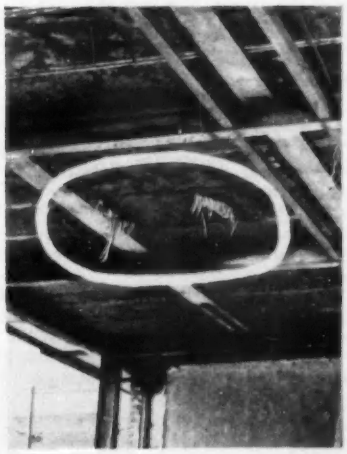
SIR,—In the article 'Fire Hazards Associated with Thermal Insulation of Buildings' which appeared in *The Builder* of April 3, the statement is made 'Tests carried out by the Joint Fire Research Organisation have shown that combustible linings, e.g., wood fibre or straw boards, present a fire hazard, in that they encourage rapid growth of fire within buildings, particularly when used in conjunction with cavities.'

As far as compressed straw slabs are concerned, this statement is both inaccurate and misleading, as evidenced by the following tests carried out by the Fire Research Station.

(1) External fire exposure test (BS.476: Part 3)—compressed straw slabs weathered with two-layer felt in accordance with the Code of Practice, fully satisfied the requirements of a two-hour test, during which time there was no penetration of fire.

(2) Internal fire exposure test (BS.476: Part 1)—compressed straw slabs supported on timber bearers, fully satisfied the requirements for one hour's resistance. Again there was no penetration of fire.

Actual fires that have occurred during recent months confirm that the use of compressed straw slabs, far from encouraging the rapid growth of fire, in fact limit the amount of damage. I enclose a photograph (reproduced) taken after the fire at Kynaston

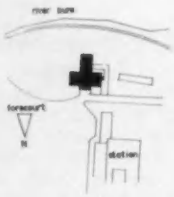


Photograph showing condition of strawboard ceiling after fire. (See letter).

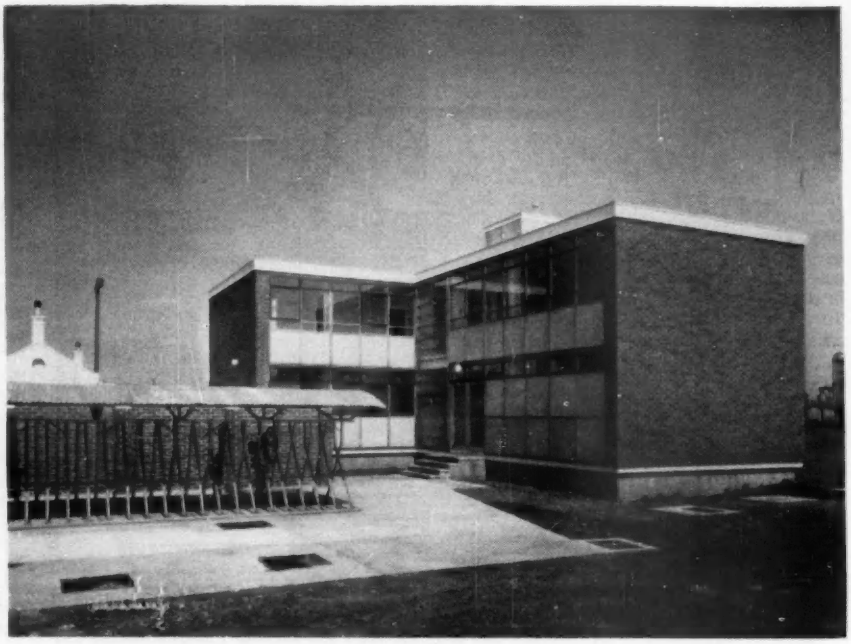
School, St. John's Wood, which had a roof deck of compressed straw slabs. After the fire, part of the roof deck was cut away and the portion ringed round illustrates that there was no smouldering and shows the straw clean and yellow. The use of these slabs prevented the fire spreading to the adjacent main building and so limited what might have been very serious damage.

H. W. JOYNES,
for Stramit Boards Ltd.

Cowley Peachey, Uxbridge.




SITE PLAN



*A general view looking north east from the direction of the River Bure*

# *GOODS OFFICES at Great Yarmouth, Norfolk, for British Railways, Eastern Region*

*Architects:*

H. H. POWELL, FRIBA, Regional Architect,
under the general direction of
A. K. TERRIS, MICE, Chief Civil Engineer, Eastern Region
A. S. HAMILTON, ARIBA, Assistant in Charge

*General Contractors:*
J. YOUNG & Sons, Ltd.

THIS two-storey office building has recently been completed adjacent to Yarmouth Vauxhall Station. The need arose from a reorganisation of goods work in the area. The new building contains a public inquiry office, offices for the Goods Agent and his clerical staff, and a messroom and locker room for the men who work in the goods yard.

The site is on the inside of a bend of the River Bure which has built up a subsoil of alluvial deposits of blue clay. The strata of the subsoil slope towards the river and the site is also subject to occasional flooding. Thirty-foot driven piles have been used and the ground floor is raised above the expected flood level.

A reinforced concrete ring beam connects the pile caps and supports 9 in. by 9 in. reinforced concrete columns. The first floor and roof are of flat slab construction with two-way reinforcement and no projecting beams. Steel shuttering was used throughout, and the exposed edges of the ground floor, roof slab and staircase are painted direct on the concrete. The walls on either side of the staircase are of 5 in. thick reinforced concrete and are designed to act as stabilisers for the structure.

The external cladding is a combination of heather-brown brickwork and purpose-made curtain walling. The timber used is agba, a reddish brown West African hardwood, and the infillings are light grey fully compressed asbestos panels.

The staircase is constructed of *in situ* reinforced concrete with precast black granolithic treads. The handrail is in agba supported on solid steel balusters.

The flat roof is finished with three layers of roofing felt laid flat on 1½ in. screed. The eaves are finished with a 3 in. high upstand and an aluminium drip. The tank housing is clad with western red cedar vertical weather boarding on softwood framing.

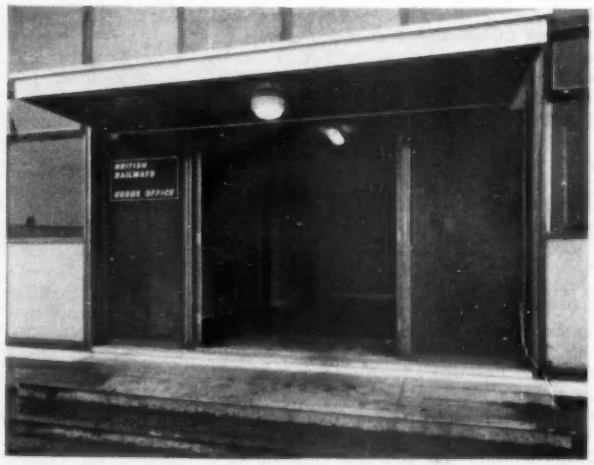
The internal partitions are generally in 'Lignacite' blocks and are plastered. The glazed partitions to the 'Inwards' and 'Outwards' offices are framed in softwood with solid panels of 'Vynide' covered hardboard. The notice board is covered in black baize.

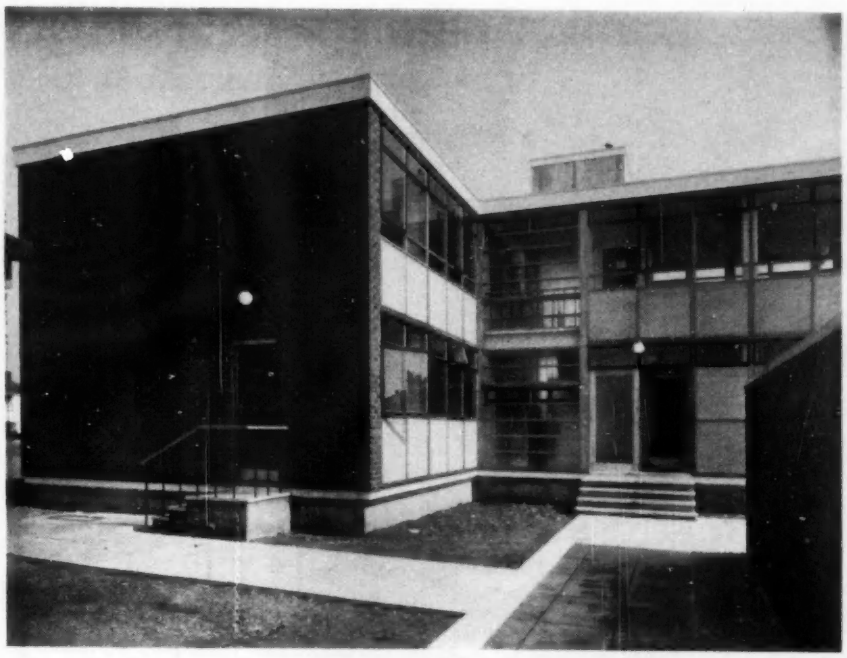
Floor finishes include thermoplastic tiles in offices, ⅜ in. sapele wood mosaic in the entrance hall and lobby, red quarry tiles in the lavatories and granolithic in the boiler room and on the staircase landings.

The building is heated by a gas fired boiler and accelerated low pressure hot water with radiators. Hot water is provided by instantaneous gas water heaters.

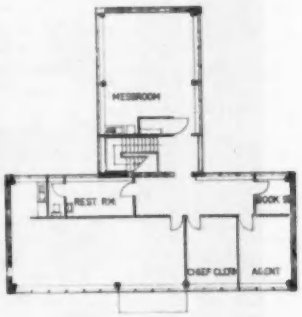
In the absence of main drainage a small sewage disposal plant and lift were installed and the purified effluent is discharged into the river.

*The entrance to the public lobby on the north side of the building*

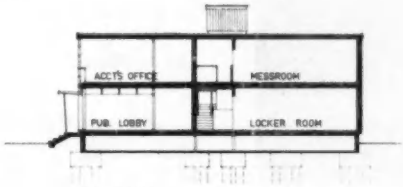




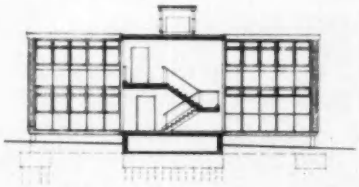
*The west elevation showing the main staff entrance next to the glazed staircase wall*



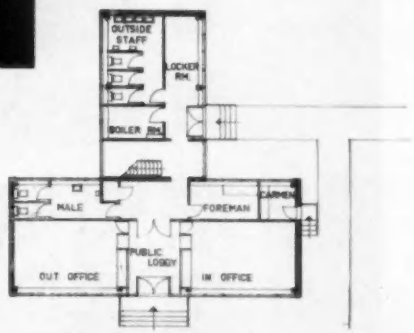

FIRST FLOOR




LONG SECTION



CROSS SECTION



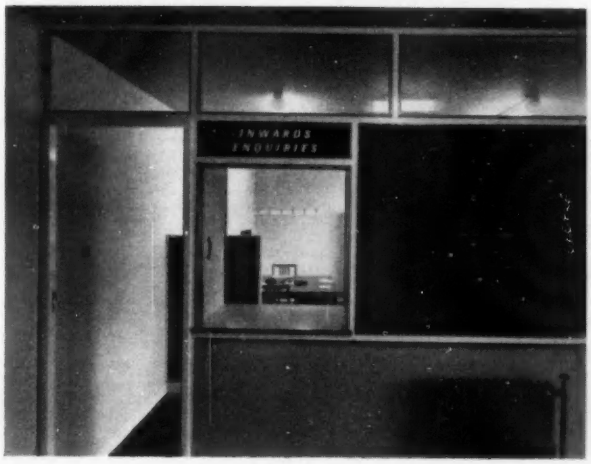

GROUND FLOOR

## *Goods Offices at Great Yarmouth, Norfolk*

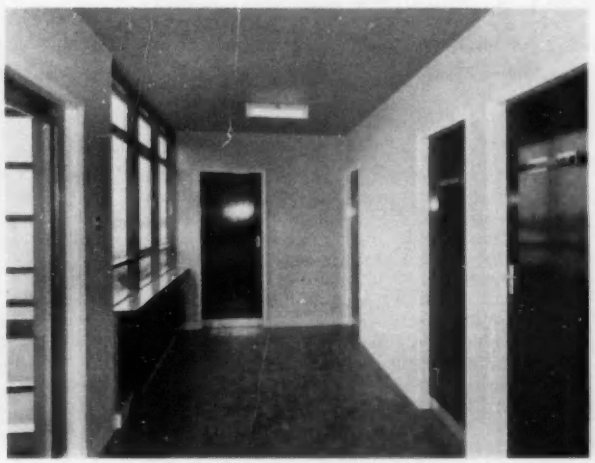
***Sub-contractors and Suppliers:***

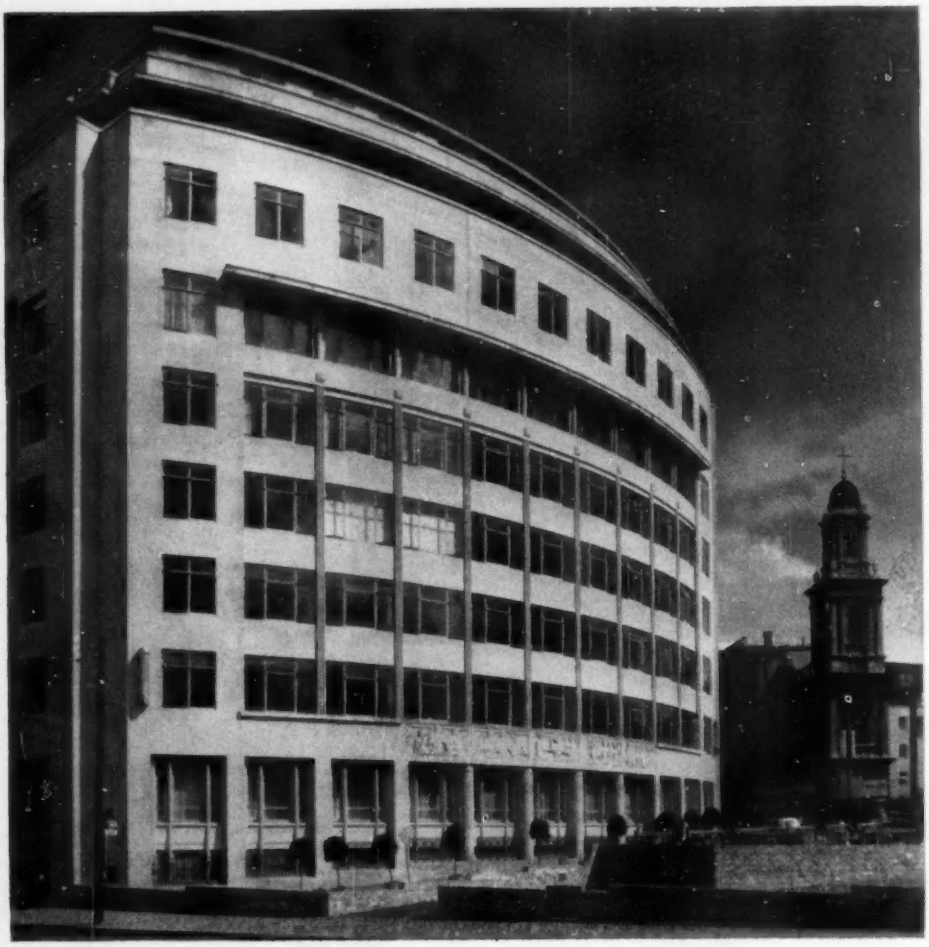
*Roof covering*, D. Anderson & Sons, Ltd.; *piling*, Holmpress Piles, Ltd.; *heating*, Norris Warming Co., Ltd.; *ironmongery*, G. & S. Allgood; *sanitary fittings*, Stitsons Sanitary Fittings, Ltd.; *sewage disposal plant*, Burn Bros., Ltd.; *flooring (wood)*, Bennett's Flooring Co., Ltd.; *cycle store*, Constructors, Ltd.; *infill panels*, G. R. Speaker & Co., Ltd.; *bricks*, W. T. Lamb & Sons, Ltd.; *balustrading (metal)*, S. T. Cowell & Sons, Ltd.; *instantaneous heaters*, Ascot, Ltd.; *lettering*, Dales (Lettering), Ltd.; *thermoplastic tiles*, Armstrong Cork Co., Ltd.

*A detail of one of the screens between the main offices and the public lobby*




*A section of the first floor corridor. The staircase is through the door on the left*





*The elevation to Holborn-circus with Charterhouse-street on the left and Holborn-viaduct on the right. The bas relief above the ground floor windows was carved by Esmond Burton*

# *OFFICES*
# *in Holborn, London, EC1*
## *for the Diamond Trading Co. Ltd., and the Anglo American Corporation of South Africa Ltd.*

*Architects :*
T. P. BENNETT & Son

*Quantity Surveyors :*
GARDINER & THEOBALD

*General Contractors :*
JOHN MOWLEM & Co. Ltd.

THE building has frontages to Holborn-viaduct, Holborn-circus, Charterhouse-street and Shoe-lane. The northern half with approximately 75,000 sq. ft. is occupied by the Diamond Trading Co., Ltd., and its main entrance is in Charterhouse-street. The southern half of the building, which was erected by the Holborn Viaduct Land Co. and leased to the Anglo American Corporation of South Africa Ltd., is entered from Holborn-viaduct and provides approximately 62,000 sq. ft. of floor space.

The building is set back to provide for the reconstruction of Holborn-circus in the future and has been designed to unite the irregular corners of Charterhouse-street and Holborn-viaduct and to provide the splays at the corners which were required by the City Corporation.

In order to comply with the daylighting code, the building is set back above the 80 ft. level, but maintains the parapet height of Atlantic House on the Holborn-circus frontage.

The construction is of reinforced concrete with a cellular raft foundation. Upper floors have been designed to provide mainly flat slab construction with the minimum interference from projecting beams.

Both parts of the building are served with interconnected passenger lifts with additional lifts for the conveyance of goods.

Externally, the building is faced entirely with Portland stone. The interior courtyard is faced with Portland stone and a buff Sussex facing brick.

***Sub-contractors and Suppliers :***

*Portland stonework*, The Bath and Portland Stone Firms, Ltd. ; *metal windows*, The Crittall Manufacturing Co., Ltd. ; *steel reinforcement*, G. K. N. Reinforcements, Ltd. ; *structural steelwork*, Matthew T. Shaw & Co., Ltd. ; *electrical installation*, Troughton & Young, Ltd. ; *heating, ventilation and plumbing*, Matthew Hall & Co., Ltd. ; *sprinkler installation*, Mather & Platt, Ltd. ; *passenger lifts*, Otis Elevator Company, Ltd. ; *document lift*, Marryatt & Scott, Ltd. ; *ornamental ironwork, bronze doors and balustrades*, Morris Singer & Co., Ltd., H. H. Martyn & Co. ; *iron balustrades and railings*, H. H. Martyn & Co., S. W. Farmer & Son, Ltd. ; *interior decoration*, Charles Hammond, Ltd., George Keeble, Ltd. ; *marble wall linings and floors*, J. Whitehead & Sons, Ltd., Fenning & Co., Ltd. ; *wood block flooring*, Hollis Brothers & Co., Ltd. ; *ironmongery*, G. & S. Allgood ; *rubber flooring*, Runnymede Rubber Co., Semtex, Ltd. ; *strong rooms*, Chatwood Safe and Engineering Co. Ltd. ; *sanitary fittings*, John Bolding & Sons, Ltd., Stitsons, Ltd. *Door and wall tiling*, Carter & Co. (London), Ltd. ; *terrazzo*, leiespeker, Ltd. ; *asphalt*, Ragusa Asphalte Paving Co., Ltd. ; *electric clocks*, Synchronous Electric Clocks, Ltd. ; *pavement lights*, Luxfer, Ltd. ; *fire shutters*, Dennison Kett & Co., Ltd. ; *kitchen equipment*, Benham & Sons, Ltd. ; *internal telephones*, E. Shipton & Co., Ltd. ; *plastering and acoustic ceilings*, Clark & Fenn, Ltd. ; *lightning conductors*, R. C. Cutting & Co., Ltd.

# *FLATS at Haywards Heath, Sussex*

*Architect:*
H. OWEN LUDER, ARIBA

*Quantity Surveyor:*
C. R. WHEELER, ARICS

*General Contractor:*
EAGLE CONSTRUCTION Co. Ltd.

GROUND FLOOR PLAN

THE site at one time was a sandstone quarry, and in the centre is a deep cutting formed by the old workings. The fall is away to the south-east and excellent views to the coast are obtained on fine days in this direction.

Cuckfield Urban District Council had no particular objections to the type of development envisaged for this site and only stipulated that it should as far as possible be kept away from the north-east boundary, and this area of the site will be left open as an orchard and garden area to be taken over by the tenants' association.

It was decided at the outset that thirty two-storey flats were to be planned for the site with as many garages as possible. The restricted road frontage of the site indicated some development in depth and therefore some form of service road into the site would be required. With this in mind, and the usual poor appearance of blocks of garages on this type of development, it was at an early stage decided to plan the garages in the cutting in a quadrangle of sufficient size to form a turning circle and linked with the road sweeping in a gentle ramping curve. This method enables the garage roofs to be dropped below the general ground floor levels of the flats and constructed in such a way that they are paved over to form terraces to the flats.

A feature of the design is the 'saw tooth' layout providing an interesting general façade both front and back. The interior planning to the ground floor flats is for a lounge, two bedrooms, kitchen and bathroom, and the upper flats are the same, with an additional small spare bedroom or study.

*A perspective by Tony Cook, ARIBA, showing how the terrace extends above the garages in the central cutting*

# RIBA ANNUAL GENERAL MEETING

## *Increases in Examination Fees Come Under Fire*

As briefly reported in our last issue, the annual general meeting of the Royal Institute of British Architects was held at 66 Portland-place, W1, on May 5 with the President, Mr. Basil Spence, OBE, TD, ARA, ARSA, in the chair. There was a lively discussion on increases in the examination fees for students; the difficulties encountered in financing the new RIBA building were the subject of some criticism; but the matter of the revised RIBA constitution was passed over practically without comment. Following are extracts from the discussion on the report, which was accepted:

### *The Allied Societies' Conference*

MR. GRENFELL BAINES (A): Now that constitutional decisions are being made, it might strengthen the Allied Societies generally speaking if the Council were to give them specific tasks to do. A great deal of time and money is spent coming to committee meetings in Fortland-place, but I feel sure there are people in the field who might be able to do good work for the Council if they were to make that request. Could that be borne in mind?

The HON. SECRETARY (Mr. Richard Sheppard): I am sure it will be taken care of, because I am sure the *ad hoc* Committee intends to ask the Societies where there are not other organisations like the Society of Official Architects who can get information in that way. I hope work will be done in the field in those forms.

The PRESIDENT: I do not know whether the Chairman of the Constitutional Committee would like to talk about this.

MR. A. W. CLEEVE BARR (A) (Chairman of the Constitutional Committee): I think the actual proposals of the Constitutional Committee only impinge on this to the extent that one is proposing that the representation of members on the Council shall be elective. The Allied Societies will be represented on the basis of one representative to four hundred members. This should enable them to participate rather more than at present.

MR. NORMAN H. FOWLER (F) (Chairman of the Allied Societies' Conference): I should very much like to support what Mr. Grenfell Baines has said.

### *The Board of Architectural Education*

MR. D. H. MCMORRAN (F): I note that under the section headed 'Oxford Conference' it says that a committee is considering the question of what is called a 'second category' in the profession. I should like to know whether the committee is doing that under a directive from the Council. I should like to know the status under which this is being looked into.

The PRESIDENT: The answer to the question is that it is under the directive of the Council.

MR. G. B. ODDIE (A): The idea of a two-tier profession would not be accepted without considerable demur. There is, I believe, a large body of the existing profession many of whom are sympathetic towards the idea that one man alone cannot perform all the tasks that are required of an architect, and architecture nowadays must be the product of a team rather than an individual. But they are seriously alarmed at the prospect of a two-tier profession where one tier is above the other and where the chap down below does all the donkey-work and the chap on the top is a prima donna with a six-B pencil.

The PRESIDENT: Thank you very much, Mr. Oddie. That is noted.

MR. JOHN SMITH (A): My question is whether it is still the policy of the Council to continue to increase the numbers of recognised schools.

MR. BEATY-POWNALL (Chairman of the Board of Architectural Education): The present position with regard to recognised schools is simply that they are recognised or not on merit. Any school can apply, and if it is inspected and reaches the required standard in every way, it can be recognised on merit.

MR. JOHN SMITH: So there is no minimum size, shall we say, that may be considered efficient.

The HON. SECRETARY: I think the answer is that the Board is obliged to consider a school on its merits and cannot take account of the findings of what is called the Oxford Conference Committee. It is likely that the effect of the adoption of that Committee's report will mean eventually a change in the number of schools because if you are only taking in people of 'two "A" levels' it tends to concentrate the number of people in training at the schools, either University schools or schools qualifying for a degree in higher technology or something like that.

### *Public Relations Committee*

MR. LESSLIE K. WATSON (F): I am sure we are all very interested in the new shape of the annual report and would like to welcome it. It has been put into a very lively dress.

I should be pleased if the person responsible could tell us something about the new RIBA policy on typography. I am particularly interested in the size of the sheet, which is taller and narrower than before and, I think, ½ taller and ½ narrower than *The Builder*. I was wondering whether we are trying to stick to any size of page, whether it is a British Standard, and if by any chance it is a British Standard whether it is likely to remain such or whether we shall have to change it every time the Standard changes.

THE HON. LIONEL BRETT: As far as the design size is concerned, what we have done—as I think we have reported here—has been to appoint a designer. When you appoint a designer, as we know, you leave it to him. There will be, as a result, one mind overlooking everything we put out and there must inevitably be consistency in what we do.

MR. THOMAS MITCHELL (A) (Chairman of the Science Committee): There is a note here, I think, briefly that 4A is a paper of the series of international paper sizes for technical literature which has been adopted by you and your Council for all Institute publications. The building industry as a whole is gradually adopting these sizes for technical literature.

The PRESIDENT: It is our policy that we want to come into line with other technical literature.

### *Sub-Committee on the Appointment of Architects as Chief and Planning Officers to Local Authorities*

MR. ARTHUR LING (F): I think it is a measure of the failure of this Institute that there are still 38 important county boroughs which still have no chief architect. I hope that although this is a small committee and a small report, the subject, which is very important indeed, will perhaps move upwards to the Council and during the year become one of the main issues.

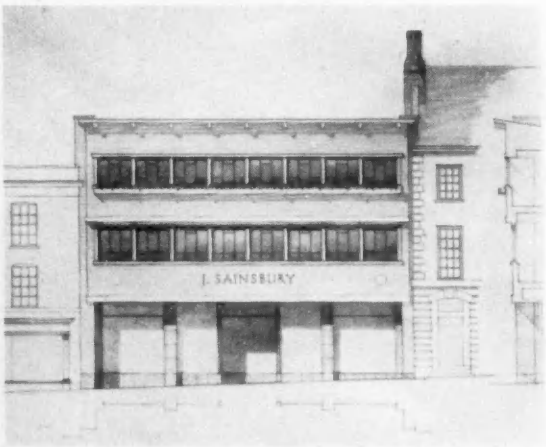
We found recently, when the question of urban motorways arose, that architects were not in the key positions for planning and even architecture in these county boroughs. One cannot press for the architect to be the planning officer if there is no architect.

I would have thought that the record of achievement of the members of this Institute working in public authorities since the end of the war—even if you only go as far back as that—is such that we have a very solid claim to make to the Government, and I think it is to the Government we have to make it, for statutory recognition of architects as essential officers in local authority work.

The PRESIDENT: Thank you very much, Mr. Ling. All we can say is that we agree absolutely, and on the Council we will discuss it at a very early date. I must say I feel very strongly that we should try to plan something.

### *Rebuilding No. 68 Portland Place and Additions to No. 66*

MR. WHITBY: When the financial squabble broke out in about February last year, we were told the main cause was the £100,000 shortfall in the building fund. Two months afterwards we were told that the




R.A. Exhibition, 1959. Drawn by Marshall Sisson.
NEW PREMISES for J. SAINSBURY, LTD., at BURY ST. EDMUNDS
Marshall Sisson, ARA, Architect

R.A. Exhibition, 1959. Drawn by E. J. Thring.
PROPOSED HOUSE NEAR CUMBERLAND GATE, WINDSOR GREAT PARK
Sydney Tatchell, Son & Partners, Architects

shortfall—should we call it the projected over-spending?—would be £73,000. We are now told—and here I am quoting from page 20 of the report—that 'the anticipated deficit of between approximately £73,000 to £100,000 between the premises re-building fund and the estimated cost of the work can now be determined at approximately £91,000.' I should like to know whether £91,000 is a guess, and if so whether there is a more up-to-date figure.

The Hon. Treasurer (Mr. E. D. Jefferiss Matthews) (F): The position is this. The total final costs of the building works here at No. 68 and the additions to No. 66 are anticipated to come out at something less than £229,000. I say something less. We are still waiting for the final account, and we have been informed by our architect that there are certain claims that have been submitted by the general contractor which are under study. We have allowed for these claims. If our architect is successful in defeating the legitimacy of these claims we may be appreciably—a matter perhaps of £4,000—under the total amount.

It is true that at various stages during the building and towards its end it was necessary to report either at annual general meetings or special general meetings the state of progress of the building. We were uncertain of the amount by which the building fund that was available would fall short of the requirements. The original estimate was £100,000. We endeavoured to get it down below when the mortgage which we obtained at a time of fairly critical national financial restriction, although we applied for £100,000, was granted by the Capital Issues Committee at £70,000.

We made the most careful examination that we could of where savings could be achieved in order to bring down the difference to the amount of the mortgage allowed to us. We could only have done this by paring down to an extent which we thought completely inappropriate in the circumstances of this building because of a local or national financial situation and because of our own difficult financial position at the time. This would have been quite wrong. We therefore took a bold step and although we did reduce certain refinements, shall we say, in the building we finished up with a difference of £91,000, allowing for the claim which may, and I hope will still, be won, between that and the building fund.

We have, therefore, had to find £21,000 out of current account. By the handling of the accounts generally, during this difficult year, in order to maintain the activities of the Institute as far as possible and before the new subscription rate became operative, we have managed to find that £21,000, which has been set aside to meet the final cost of the building. In the accounts for the year ending in December, 1958, which we are considering now, it can be said that we have finally paid off all the costs of the building except the remaining £70,000 on a twenty-year mortgage with amortisation of increasing liability. We have also found £21,000 and if our architect is successful in dealing with the final account and claims, it may be a little less than that.

### *Profits on Examination Fees*

Mr. Whitby: It was said last year again by the Honorary Treasurer that admittedly there was profit on examinations. On paper this year it is £20,000. That, I know, is in fact somewhat inflated. I would not like to guess what the figure is but approximately, I should say, it is the figure we put in the development fund; that is, £11,000. I suggest this is money we have squeezed out of these young students. The Honorary Treasurer says—I quote his very words—that this seems to be right and fair. Anyone who wishes to enter this profession has full knowledge of what it costs to become a qualified member, and if he does not like paying that cost he need not become an architect. This is in the nature of a premium on membership of the RIBA. But here I come to a very serious point. It is not a premium on membership of the Institute. It is a premium on being admitted to the Statutory Register of Architects.

This Institute, through the agency of its Registration Committee, exercises a practical monopoly of ARCUK. It prevents any person intending to become an architect getting on to the Register without taking the examniations of this Institute, whether that person wishes to become a member of this Institute or not. I believe that it is flouting the intentions of Parliament in that it has deliberately refused to allow the Registration Council to hold examinations of its own, which it is required to do by law; and it has never given serious consideration to the examinations of any other body and never allowed such consideration to be given. I believe that this is a very serious matter.

The Hon. Treasurer: You cannot take the direct expenses of holding the examinations and deduct those from the fees obtained and say that the result is the total profit. No charges are made, because the accounting is not done separately, for the staff organising the examinations here, rent, heating, lighting, cleaning, general administrative charges. But even if a fair assessment of these is made, there is still, if you like—we will be quite blatant—a profit margin.

I have asked the Council to consider this matter on every occasion the accounts have been dealt with and the Council have on each occasion approved the principle, which is an old tradition of the RIBA, of making some profit—and I am talking very plain blatant words—out of the examination fees.

Mr. Everard Haynes (Secretary to the Board of Architectural Education): I must correct Mr. Whitby on one point. There is no statutory duty laid on the Registration Council to hold examinations. Section 5 (2) of the 1931 Act lays it on the Board to recommend to the Council the recognition of any examinations which ought to be passed in order to qualify or the holding of any examinations which ought in the opinion of the Board to be passed by applicants for registration.

The key words are 'in the opinion of the Board' and the Board have recommended against the holding of a separate examination for registration. That was approved many years ago and has been confirmed in subsequent debates by the Registration Council. It is only when the Board recommend to the Council the holding of its own examinations for registration that the last words of Section 5 (2) come into operation which are: 'and to hold examinations in architecture in accordance with this Act.'

Mr. D. H. McMorran: I think the meeting is missing Mr. Whitby's point. His point is that in the privileged position in which we are in this Institute of being given control by the country of the system of architectural education, we have a very great responsibility for conducting these affairs in the best interests of the public and of architecture, and when, as Mr. Haynes has just told us, the Board many years ago came to the conclusion that independent examinations need not be held by ARCUK, they perhaps did not visualise the day when this Institute's finances would be in such a position that we had to use our power of imposing an examination fee to improve our position. This is the point: that we should be, like Cæsar's wife, above suspicion in this matter.

The President: The point is this. It has already been discussed in Council. It is under review, and what you are saying is already known by Council. We will record your opinions and when it comes up for review again they will be noted.

Mr. McMorran: Could we be told what it is we collect from students who sit examinations not in this building but from recognised schools?

Mr. Everard Haynes: Recognised school students 20 gns. up to exemption from the final examination; 6 gns. probationership; 9 gns. intermediate; 5 gns final exemption.

# News of the Week

### *RIBA News*

THE RIBA Council has now approved recommendations 5 to 9 of the Second Report of the Constitutional Committee, it was announced by Mr. Richard Sheppard, vice-president, RIBA, at a Press conference held at the RIBA on May 6 following the Council's annual meeting the previous evening. The Constitutional Committee's recommendations were given in full in *The Builder* of April 17.

Mr. Sheppard also gave details of the Royal Institute's continuing fight for architects to be represented from the earliest stage on the various regional study groups that are being set up to plan the new urban motorways. He said that the matter had been raised in Parliament, and it was satisfactory that in the case of the West Midlands and West Riding of Yorkshire study groups that the Minister of Transport had written to the chairman of the groups suggesting that they might consider including an architect in each group. However, both the Manchester and Northumberland County Council groups had stated that they saw no need for the inclusion of an architect at this stage, and the RIBA Council had accordingly decided to write to them again on the matter.

Since the RIBA had not obtained satisfaction from its representations to the Ministry of Transport, the Council had now decided to raise the matter again with the Royal Fine Art Commission; to accept the Minister of Transport's invitation to the president RIBA to meet him to discuss the question; and to urge the presidents of the Allied Societies to bring pressure on their local MP's for architectural representation on the study groups in their constituencies.

### *Sir Harold Emmerson*

SIR HAROLD EMMERSON, GCB, KCVO, is to retire from the post of Permanent Secretary to the Ministry of Labour and National Service on July 31 next. He will be succeeded by Sir Laurence Helsby. Sir Harold, until 1956, was Permanent Secretary of the Ministry of Works, a post he assumed in 1946.

### *£2,500 for RIBA*

MR. WILLIAM HENRY ANSELL, P-PRIBA, left £35,508 gross, £35,222 net (duty paid, £7,694). To the Royal Institute of British Architects he left the portrait of himself painted by Sir Walter Russell, his drawings in Solander Cases and £2,500 for the purchase of pictorial architectural drawings, etchings and prints, to be known as the Ansell Collection of drawings, etchings and other prints of architectural subjects. He left £100 to the Architects' Benevolent Society and his drawings of Ypres Cloth Hall and Ypres Cathedral, made in 1916, to the London War Museum.

### *Banstead Architectural Appointment*

BANSTEAD UDC are to consider instructing an architect to prepare a scheme for the development of 14 acres by the erection of houses, two- and three-storey flats and old people's dwellings. Details advertised in this issue.

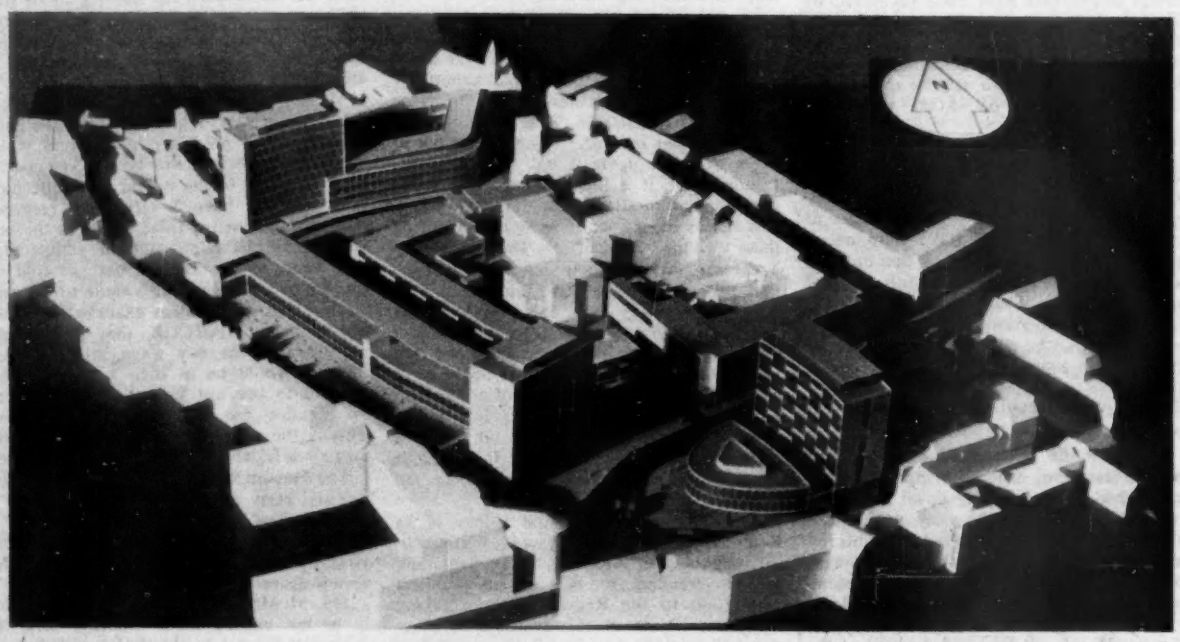
'So you intend to have a really serious stab at that Roman Catholic Cathedral comp. ?'

### *Contractors' New Chairman*

MR. J. MAURICE LAING has been elected the new chairman of the Federation of Civil Engineering Contractors. He succeeds Mr. E. C. Beck. The new vice-chairman is Mr. A. J. Hill. Mr. R. M. Douglas, who was elected president a year ago, continues in that office.

### *New President*

MR. W. LESLIE BURT, MBE, of Steyning, Sussex, has been elected president of the Chartered Auctioneers' and Estate Agents' Institute for 1959-1960.



CAMBRIDGE REDEVELOPMENT.—Shown above is a scheme for the redevelopment of the Lion Yard area, Cambridge, where a site of about 6½ acres is to be cleared and redeveloped by a company, Edger Investments, Ltd., in association with Sir Robert McAlpine & Sons, Ltd. Plans are by Messrs. Stone, Toms & Partners, of London, and provide for a hotel, students' hostels, underground car park, etc. A public inquiry will be necessary before work can commence, as a compulsory purchase order is sought

# CIVIL ENGINEERING CONTRACTORS

## *Fortieth Anniversary Dinner*

THE Minister of Transport, Mr. Harold Watkinson, was the guest of honour at the fortieth anniversary dinner of the Federation of Civil Engineering Contractors, which was held at the Dorchester Hotel, W.1, on Tuesday evening. Attendance at the dinner was a record, about 800 members and guests being present.

MR. WATKINSON, who proposed the toast of the Federation, speaking of the roads programme, said that he felt very strongly that this programme should not be dissipated in bits and pieces of work all over the country, but that the Ministry should first concentrate on a major framework of new motor roads which could be the basis of a new road network which would drain off the heavy through traffic, and thus give us rather better conditions over some of our existing through routes which offered quite pleasant motoring on very good services provided that they were not loaded beyond their capacity.

'In this sort of programme you must have some new ideas,' said Mr. Watkinson. 'The road over the railway is one which I hope we shall see more of. The four-lane double decker road cantilevered out from a centre pillar growing from the central reservation of an existing road is another idea which I think particularly suitable to our traffic conditions and congested areas.

'I also like the idea of giving a face-lift to existing trunk routes where this is possible because by so doing you avoid the terrible problems of land and property acquisition.

'The Great North Road, for example, when we have spent some £50 million on it will for the first time be great in nature as well as in name. I am announcing some quite ambitious plans for rebuilding the Kingston By-pass as a new outlet to the south-west at a cost of some £1.7 million.'

Continuing, Mr. Watkinson said that the Government would soon be spending at the rate of £60 million a year as they were now planning at not less than £60 million for new construction alone, the total spending rate on roads being roughly £140 million a year at the moment.

No doubt we should have to reshape our road programme as we went along, the Minister continued, and he was most anxious to have available to his Ministry all the experience that was available 'The Road Research Laboratory plays a vital part,' he said, 'and I am considering whether we could also link some of the practical experience which members of your industry will gain or have gained in other spheres and will gain in facing the particular problems that road building throws up in these islands. Particularly I think this is true when we move into the more intensive phase of urban building which we are now commencing."

In his response the President, MR. R. M. DOUGLAS, said that this was the first time since the war that a Minister of Transport has been the principal guest at the Federation's annual dinner. 'I welcome the opportunity on behalf of our members of assuring you, Mr. Minister, of our industry's wholehearted co-operation in carrying out the road programme initiated by you. At the same time,' he declared, 'I would like to say that our industry can, if given the opportunity, bite off considerably more than we have so far been given to chew without the slightest risk of suffering from constructional indigestion.

'It is frequently said that roads are the conveyor belt of a modern economy and if we are to maintain our position as the workshop of the world, it is to be hoped that the programme will increase in both size and momentum.'

The toast of the guests was proposed by Mr. E. C. BECK, chairman of Council, and the response was by SIR HAROLD EMMERSON, Permanent Secretary, Ministry of Labour and National Service.

Among the guests were:

J. Armstrong, J. L. Beckett, E. Burgess, J. T. Calvert, J. R. Caseley, Sir William Garrett, Dr. W. H. Glanville, J. Maurice Laing, Dr. F. M. Lea, Sir Frank Lee, Sir Frederick W. Leggett, Sir George McNaughton, H. E. Matthews, Sir Edward Muir, Prof. A. J. S. Pippard, Sir Allan S. Quartermaine, J. Rawlinson, H. Spragg.

## COMPETITION NEWS

### *Liverpool RC Cathedral*

THE scheme prepared by Mr. Adrian Gilbert Scott for a cathedral in Liverpool for the Roman Catholic Church has been abandoned, and an open competition for new designs for a building to be erected on the present site is to be held. This is the third scheme for the Metropolitan Cathedral; the first, prepared by the late Sir Edwin Lutyens, was interrupted by the war, after which its execution became uneconomical, and Mr. Scott was invited to prepare new plans. These were illustrated in *The Builder* of March 4, 1955, when a comparison of the Scott and Lutyens designs was given.

A board of assessors comprising Dr. J. C. Heenan, the Archbishop of Liverpool; Mr. Basil Spence, ARA, President of the RIBA; and Mr. David Stokes, FRIBA, will draw up conditions of the competition which is to be open to all corporate members of the RIBA in the Commonwealth. A building (in Mr. Spence's words, 'alive and vital') is sought which would cost about £1m. as opposed to the building Mr. Scott was asked to design which, at current rates, might have cost about £10m. Towards the building cost about £500,000 is available.

Mr. Spence states that the Lutyens Crypt, 'which is wonderful in its own way, will be a complete entity, and the Cathedral can be built partly on it, or away from it, as there is ample space.'

### *Finchley Town Hall: Winning Design*

THE WINNERS of the Finchley Town Hall architectural competition are Messrs. Lyons, Israel and Ellis, AA/RIBA. The assessor was Sir Percy Thomas, OBE, FRIBA. The competition was limited to six contestants, the other five being Mr. Berry Webber, FRIBA; Mr. Rowland Pierce, FRIBA; Mr. Philip Hepworth, FRIBA; Mr. Cecil Howitt, FRIBA; and Mr. R. H. Uren, FRIBA.

### *Multi-storey Flats, Halesowen*

HALESOWEN BOROUGH COUNCIL are to promote an architectural competition for the layout of flats at Highfields. The scheme is likely to consist of upwards of 200 multi-storey flats on a site adjoining the central area redevelopment project, which is being carried out by the Council. The President RIBA has nominated Mr. Eric A. Lyons, FRIBA, as assessor.

## COMING EVENTS

*WEDNESDAY, MAY 20*

LONDON UNIVERSITY.—Lecture: 'Excellence in English Architecture.' By Sir Albert Richardson, FRIBA. Senate House, London University, WC1. 5.30 p.m.

THE YERBURY FOUNDATION.—Lecture on 'Mechanical Services and Architecture.' By Jorgen Varming, BSc. TUC Memorial Building, Great Russell-st., WC1. 6.30 p.m. Admission by ticket only from 36 Bedford-sq., WC1.

*THURSDAY, MAY 21*

TOWN PLANNING INSTITUTE.—33rd Annual spring meeting. Southport. 10.30 a.m. (until May 22).

INSTITUTE OF LANDSCAPE ARCHITECTS.—'Landscape Work in Wales.' By Mr. R. Colwyn Foulkes, ARIBA. 1 Park-cresc., Portland-pl., W1. 6.15 p.m.

RICS (JUNIOR ORGANISATION).—AGM. Followed by discussion on 'Private Estate Development.' 12 Great George-st., SW1. 6.15 p.m.

INSTITUTION OF CIVIL ENGINEERS.—Annual dinner. Dorchester Hotel, Park-la., W1. 7.30 p.m.

*FRIDAY, MAY 22*

RIBA.—Symposium on Urban Renewal: 'The Living Town.' 66 Portland-pl., W1. 10 a.m.

*SATURDAY, MAY 23*

INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS.—President's 'At Home.' 29 Belgrave-sq., SW1. 2.30-5 p.m.

## PROFESSIONAL ANNOUNCEMENT

MR. ALISTER MACDONALD, FRIBA, has taken MR. EDWARD JAMILLY, Dip Arch, ARIBA., into partnership, and the practice will continue under the style of MESSRS. ALISTER MACDONALD AND PARTNERS, from Aldine House, 10-13 Bedford-street, London, WC2 (telephone: Temple Bar 0794 and 8169). MR. D. KEITH COMPTON, ARIBA, and MR. CYRIL F. MANNING, ARIBA, become associates of the new firm.

## A HUNDRED YEARS AGO

*From* The Builder *of May 14, 1859*

HOW WE BUILD BARRACKS, GOSPORT.

Sir,—Your columns have contained many well-merited strictures on the way in which the public money is squandered on ill-contrived and badly-constructed barracks; and after all that has been written on the subject, it is from bad to worse the authorities are going in respect to barracks for our troops. Of all the barracks that have been constructed, those now being finished at Gosport outdo them in display of reckless waste of public money and blundering on the part of the directors. In the first place, these barracks were intended to be bomb-proof, which they never would have been had they even been constructed as originally intended; but the design could not be carried out; for, had the arched roofs over the buildings been loaded by earth, etc., as proposed, the sustaining walls must have been crushed, and the buildings would have been a heap of ruins. One building, the commanding officer's house, was so rent by half the weight intended to be put on it, that the authorities were obliged to abandon their fallacious scheme for rendering that building bomb-proof; and it was not until after that failure, it was found out, by your scientific men, that the whole beautiful system of rendering Gosport barracks bomb-proof must be abandoned. ONE IN THE SECRET.

# CURRENT PROBLEMS IN BUILDING

## *Architect-Builder Discussion at AA*

THE AA's three builder honorary members engaged in a discussion-evening at 34 Bedford-square on April 29, when under the chairmanship of Mr. J. M. Austin-Smith, they spoke on 'Some Current Problems of the Building Industry.' They were Mr. D. E. Woodbine Parish, FIOB, senior vice-president of the National Federation; Mr. Harry Oddie, President of the Institute of Builders; and Mr. Peter E. Trench, OBE, Director of the National Federation.

Speaking on 'The Place of the Industry in the National Economy,' MR. PARISH said that if the building industry was to secure its place in the national economy, it must think not as individual sections but collectively. The changes of the post-war years had shown that there was a good deal of flexibility within the industry—the big changes in connection with the design and construction of buildings had shown that—but the process needed to be one of evolution rather than revolution. 'As an industry,' said Mr. Parish, 'we ought to be able to think in terms of an increase in annual productivity of the order of 2½ to 3 per cent.'

Were a survey conducted among the general public, none (whether in the professions or in the industry) would, he thought, be flattered by the public's opinion. The professions were an integral part of the industry. Architecture was not and could never be, an end in itself. Yet there had built up over a period of time a feeling that there was a monopoly of integrity within the professions and a lack of integrity, perhaps, on the industrial side, and the public was led to believe that it was necessary for the architectural and quantity surveying professions to protect them. 'During the coming years we must come closer together,' said Mr. Parish, 'and see whether we cannot improve means of communication and from that improve our productive capacity.'

### *Education in Building*

Speaking on education in the industry, MR. ODDIE said that of all the problems which beset the industry, the paramount need was for a pattern of building education which would attract the right entrants into the industry. Without that we could not hope to fulfil our social and economic obligations.

Mr. Oddie then outlined the new educational proposals of the Institute of Builders which he hoped might assist those who were responsible for guiding the destinies of architectural education in a way that would at least prevent divergence. 'In the past,' he said, 'we tended to assume that management could be assumed by a sort of intuitive genius. I know it is an art and not a science, but we have felt it proper, particularly in my Institute, to give greater guidance and facilities for training in the spheres of higher management.'

Such training carried the first seeds of joint education. People were often afraid to discuss that subject but he thought it was fundamental; it was far too late in maturity to become acquainted with and discuss common problems. 'I would submit,' Mr. Oddie continued, 'that the architectural profession has much more to gain than building. Architects have a frightening degree of knowledge to absorb and a breadth of understanding to develop which would dismay an ordinary man like me, but I still think you ought to give the younger people in the new world a better opportunity of understanding the facts of building life.'

Mr. Oddie then referred to 'certain hopes which had recently broken down [the proposed establishment of a College of Building at the AA, see p. 856 of *The Builder* of May 8.—*Ed.*] This, he said, was a tragedy. 'If you have had a rebuff in these quarters, I hope you will think with us across the square that true education in the building industry should be for all. We must get away from our ivory castles, and I would like to think that in the future the industry might more closely follow the pattern of the civil engineers, in which a man can be either a consultant or an executant.'

### *Individual Problems*

MR. TRENCH, speaking on 'Collective Problems of the Industry,' first outlined some of the problems of the individual sections. Architects, he thought, had three: first, that of turning out a person who was artist, business man and scientist; second, that of numbers (in 1958, 900 came into the profession); third, the relating of aesthetics to economics. Quantity surveyors, in his view, had two main problems: like accountants, they were very accurate people, 'but they must learn to be inaccurate in the sense that they must produce figures much more quickly, and not worry about the odd plumbing of angles and the like.' Their second problem was one of advising on finance or planning—cost planning. At present they had only second-hand historical data at their disposal.

The third section was the trade unions. These had three main problems: first, that of the semi-skilled men who came between the craftsman and labourer but who were certainly not unskilled yet were not skilled in the craft sense of having served four or five year apprenticeships; second, discipline ('the top trade union people are first-class chaps but I am not so sure that they can get across to the rank and file their own feelings on the subject of employer/employee relations in industrial life. It is a big problem and they must solve it if they really want to advance in the field of industrial relations'); third was labour-only subcontracting ('the unions are very worried and are trying to attack the employers on it, whereas they should be putting their own house in order and making their people do as much work as the labour-only gangs').

The builders had two main problems. First came the quality of recruitment, a very serious problem because no matter how good we became at the very top of our industry and profession, unless we could improve the calibre at the middle and the bottom we should not really achieve what we were setting out to do. Second, was the question of continuity. 'The builder today wants continuity for confidence sake,' said Mr. Trench. 'He wants to see ahead, as witness all the planning for apprenticeship and training. He wants to know that he is going to have the work and make some money. He does not have the confidence that he should have in the future, and he wants that long-term continuity on which he can plan.' He also wanted continuity on the site, the most difficult thing in the world and the point where architects came in. To keep every man fully occupied eight hours a day was a feat of master planning.

### *Collective Problems*

As to collective problems, one was leadership. 'This is an overstated problem,' said Mr. Trench. 'We want to spend much more time thinking of the responsibilities of the individual members of the team rather than all the time thinking about who should lead it. The natural leader will come out of any team.' The second was productivity. ('Productivity is a question of getting the maximum output with the minimum of resources, and we are a very long way from that in this country today. . . . The challenge is how to get the maximum output from everybody in times of full employment.'

The third collective problem was competitive tendering. There would always have to be some form of this, but when a national contractor, having taken out his figures over the last ten years, found that he had made from his competitive tendering business less than £100, the matter wanted looking at.

Fourth, was the problem of dissemination of technical information. A most extraordinary amount of research was going on but the problem was to get it across to those in the industry who really needed it. Lastly, came communications and public relations. The former brought in joint education and a sympathetic consideration of the functions of the various members who went to make up the industry. The latter posed the problem of what was to be done to educate a general public which looked upon architects as incompetent, builders as unreliable and quantity surveyors as unnecessary.

### *Discussion*

In reply to the Chairman, who invited comments on competitive tendering, MR. PARISH said that the system deprived the builder of bringing to bear on a contract the experience and knowledge which the builder might have. Building owners could derive very substantial benefits from negotiated tenders. Building owners and their advisers must recognise that price was not the only yardstick on which contracts should be awarded. We needed to bring together a team of people who had confidence in and respect for one another and who worked together as a team for the interests of the building owner.

MR. ODDIE said that as a small provincial builder he would not like to see all contracts negotiated, but he thought the competitive system should be more selective and compare like with like.

The CHAIRMAN: Does Mr. Trench think that the young architect, unaware of the need for continuity on the site and the problems associated with programming, can unwittingly in the design of his scheme make the builder's task on the site an almost impossible one? MR. TRENCH: 'Yes.'

MR. HOWARD LOBB: How can we educate our clients in the difficult problem of inviting, say, 29 contractors to tender for a £200,000 contract? This has recently happened to me and we are blessed with the one that made the biggest mistake but is trying to recover from it throughout the run of the job.

MR. ODDIE thought that local authorities should be persuaded to have a panel and give people their chance in turn. MR. TRENCH said that when he was a builder he did all his work on negotiated tenders and found pretty well without exception that the only owners who came to him were men who had been disillusioned by the competitive system. 'It is a hard way of learning, but anyone who invites 29 builders to compete will learn pretty fast.' MR. PARISH said

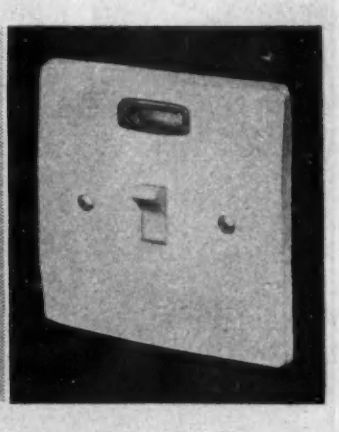
# news from MK

## may 1959

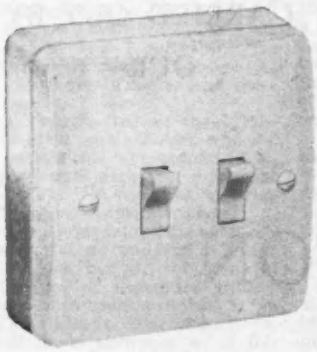
MK165A Dr.1

## A matching range of switches for Water Heater installations

Most new houses make use of electricity for water heating, and the usual form of control is a 20 ampere switch. This range has been styled to match MK lighting switches. Designed for surface or flush mounting, alternative patterns in standard dimensions are available with pilot lamp indication. The various switches are described and illustrated in colour in a new MK publication just out. Please ask for leaflet 249.



## Modern styling for surface mounting switches



When converting existing installations it is not always possible to use flush switches: hence this new moulded conversion box, designed to be both neat and unobtrusive. The box (List No. 2010) will accept one and two gang plaster-depth flush Plateswitches for surface mounting. It eliminates wooden mounting blocks and enables modern switches to be used on existing installations.

**A matching intermediate plateswitch**

MK have designed and produced this new plaster-depth intermediate Plateswitch to meet the need for the control of a lighting point from several positions. This is an extension to the Plateswitch range of a feature already incorporated in the MK Gridswitch range.

Matching the MK range of modern flush switches for domestic installations, the new switch can also be mounted in the conversion box described above.

**A word (of advice) to the wise** *Our advice is always freely available to architects on matters connected with electrical wiring accessories. May we arrange to include you on our mailing list for regular information on our products?*

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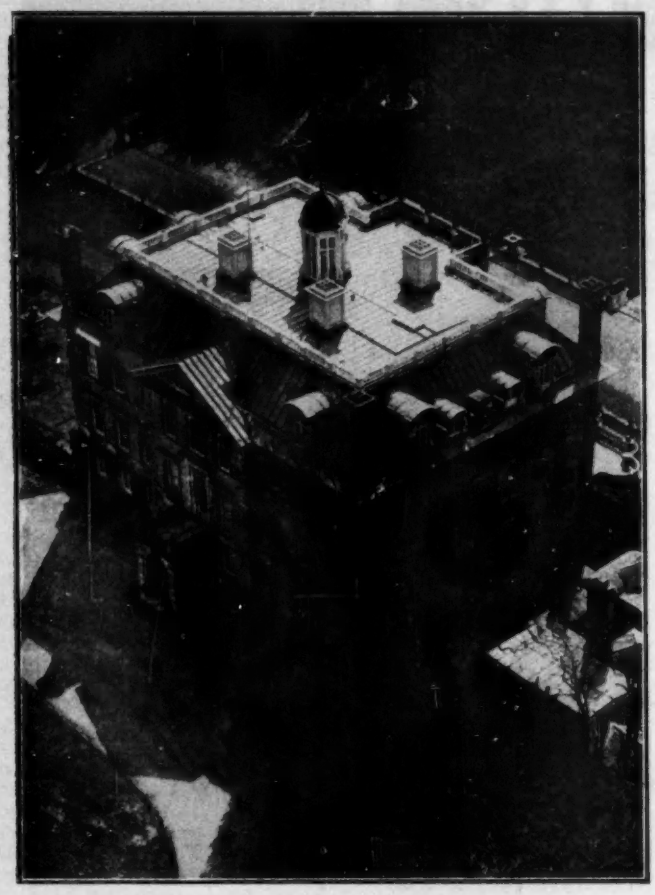

*Chartered Architects: Frederick Barber & Partners*
*5 Apple Market, Kingston-upon-Thames, Surrey*

## RESTORATION WORK AT KINGSTON-LACY HOUSE
### Nr. WIMBORNE, Dorset (Built 1663)

The entire roof lead work of about 40 tons removed and all structural roof timbers affected by death-watch beetle or dry rot, renewed and/or treated. New lead covering laid throughout and balustrading reconstructed. Defective stonework restored to all elevations and roof.

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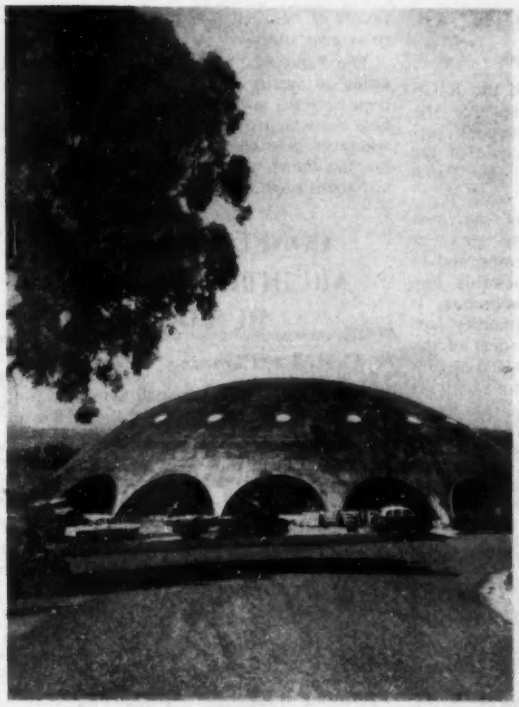
that in some parts of USA it was necessary for firms who proposed to tender to submit fairly full information with regard to their companies.

In reply to the CHAIRMAN, who asked if profit margins were so low that industry as a whole was unable to plough back sufficient profits to re-equip and mechanise itself, MR. TRENCH said that an independent economist, Professor Carter, had worked out that building in this country had the lowest profit margin of any industry. Firms used in the *Financial Times* index of company profits made their money not from contract building but from such things as land development, plant hire or rentals. 'It is my belief,' said the speaker, 'that the building industry runs at around 2-2½ per cent, out of which to pay out shareholders and get on with the next job. That is completely insufficient to plough back to make a firm really efficient.' MR. PARISH made the point that an unnecessarily substantial amount of the industry's capital was locked up in retentions, probably something like £150-£200m.

MR. J. BRANDON JONES said that he had been asked recently to work on a form of contract by a local authority which took the final certificate out of his hands and made it subject to the accounts being audited by the auditor. This means that builders would not get their final certificate on the day they expected it. 'It is entirely up to the building trade to say "We will not tender on these conditions."' Architects could do nothing except to issue a warning.

MR. H. BRADDOCK said that all three legs of the profession must work together on this, and MR. TRENCH said that action was in fact being taken through the National JCC.



## AUSTRALIAN SCIENCE BUILDING

The Australian Academy of Science Building, which is nearing completion in Canberra, the Federal capital. The Academy was founded by Her Majesty the Queen during the royal visit to Australia in 1954, and its object is the promotion of the knowledge of nature. The building, details of which were given in *The Builder* of August 15 last, consists of a copper covered concrete shell dome, 3 in. thick and 150 ft. in diameter, resting on arches set in a circular pool; it is air conditioned and the conference chamber seats 200 people. The building includes reception rooms, reading rooms, a gallery, committee rooms and administrative offices. The architects are Messrs. Grounds, Romberg and Boyd, of Melbourne

### *Controlled Entry into Building?*

MR. IAN LESLIE said there had been one big anomaly in the discussion. No one objected to competition as long as it was between people and firms who were alike. That was the point; whereas an architect had to pass an examination before he could practise, any one could become a builder to-morrow if he wished. While there was no sort of control on entry into building, there would continue to be people who did not tender on the same standards and who depressed the price.

MR. ODDIE: I think there are far too many people in building on my side, and I say that not because I want to eliminate my competitors, but because I agree with the last speaker that if we could rationalise the industry, we could give a better and more equitable service.

MR. TRENCH thought that we should distinguish between the small builder who did up the front parlour and who accounted for about £500m. of work each year and those that did new work. No examination structure would extinguish the former class.

MR. HOWARD LOBB said that architects would be happy to see builders having a fairer profit margin, but the solution, put from the platform, of negotiated tenders could not be put forward seriously as an overall solution, because the majority of clients wanted more assurance of a fair price for the job.

MR. ODDIE: 'There must be a transitional period during which profit margins must be large enough to enable money to be ploughed back in re-equipment.'

MR. TRENCH: 'No one on the platform has advocated turning over to negotiated contracts; I certainly did not advocate it. We all believe that you must have competitive tendering and that it must continue. The problem is how one can legitimately make money out of competitive tendering. The answer is that the builder who is really efficient will be able to get the job at the lowest price and makes money out of it.'

MR. TOM MITCHELL said that the relative level of profits of efficient firms compared with those of the less efficient firms was a problem common to all industry. 'There is a vast number of firms who will always require to stay at their present level because the nature of work which they will do over the next 20-30 years will not change in such a way that it is possible for them to upgrade their efficiency.'

MR. TRENCH thought we were on the verge of the industrialisation of the industry, by which he meant we should find in the years to come that we employed far less labour on sites and turned out more buildings with less labour, much being done off-site. Then the question of efficiency would stick up like a sore thumb because all the modern management techniques which the industry could use—time and motion study, work study in its broadest sense and scientific incentive schemes—would be possible and builders would be able to become more efficient.

MR. PARISH thought the increased efficiency of the industry would depend in direct ratio with the capacity of the architectural profession to recognise certain of these problems—particularly in the field of standardisation.

### *Architectural Education*

Asked by the CHAIRMAN for suggestions as to how the training of architects could be improved within the existing AA organisation, MR. TRENCH said that, first, there should be introduced into the syllabus certain building subjects as opposed to architectural subjects, in particular building economic subjects; second, there could be introduced into lectureships people with building as opposed to architectural experience; third, some students should take part in the activities and lectures of the College of Architecture and Building, when it was founded.

MR. HENRY BRADDOCK said that joint education could proceed when the results of joint effort and understanding had been shown in the practical field of building.

MR. PARISH thought things were moving in the direction of a staff college for building. At present, as in most industries, there was practically no post-graduate study whatever.

MR. DAVID CARTER doubted the merits of the staff college concept as being the complete answer. It was certainly one of the things that was wanted, but there was a rather lower plane of ability in which people must work first.

MR. NOEL MOFFETT said he understood that what was being suggested in the field of architectural education was that we should now try to fit in—if not in five years, immediately after it in a post-graduate course—a lot more subjects. The tendency should be to try to fit in less, not more.

MR. MICHAEL PATTRICK said that in education we were not training an architect; we were training his mind. It did not matter very much what subjects he was taught provided he was taught subjects which would make him think. The profession had been so busy and worried since the war that it could not seriously attend to education. The number of architects who would voluntarily give up a really first-class practice to give two or three years full-time to teaching was negligible. Teaching could not be done on something like a 3-hours-a-week basis. As to joint education, there was no earthly reason why the AA should not offer courses attractive to builders. The only thing that stopped them so doing was that there was nobody to pay for those that would teach the builder.

MR. ANTHONY COX alluded to Mr. Moffett's remarks that we must stop thinking in terms of architectural education being stuffed full with subjects and that, if we were to add any more, something must be jettisoned. 'To me,' said Mr. Cox, 'that is a hopeless way of looking at it. We do not have to add more subjects; we have to look at the subjects in a different light, have a different attitude and teach in a different way. It is a matter of thinking of our designs in economic terms and of teaching architecture as one subject, not as a series of separate subjects.'

A vote of thanks, proposed by the President, MR. D. CLARKE HALL, to the three principal speakers, was cordially given.

# COST RESEARCH

### *RICS Panel's Views*

THE Cost Research Panel of the RICS has prepared some Notes for the guidance of the quantity surveyors' sections of the branches. On the role of the Chartered Quantity Surveyor the Panel states:

1. With the increasing accent on cost planning, the chartered quantity surveyor has a responsibility to his profession and to the Institution to take every possible step to increase his knowledge and technique. It is clear that many chartered quantity surveyors do not realise the seriousness of the present position in that they are letting slip opportunities to fulfil their true rôle as advisers on the cost of building. This is not a new function of the chartered quantity surveyor because valuable service has been given to the industry in this field since the beginning of the century.

2. It should therefore be the aim of the Quantity Surveyors' sections of the branches to spread the idea of cost research among chartered quantity surveyors, and to this end to improve professional quantity surveying practices and service to the public.

3. If the parties to any building development have a well-informed and cost-conscious approach to each scheme, not only will it be possible to keep costs under control but considerable reductions below present-day average costs can be achieved without sacrificing good design, reasonable amenities or sound construction. It is particularly important for the chartered quantity surveyor to play his part in ensuring that information is fully available to the architect and to the client on the cost aspects of each scheme.

The chartered quantity surveyor in carrying out his professional function should:—

(i) act as cost adviser to the client and the architect;

(ii) prepare, if instructed, a detailed cost plan;

(iii) prepare the bill of quantities in such a manner as to give the maximum help and information to the building contractors tendering; and

(iv) advise on the effect of variations and maintain an up-to-date cost summary as the work proceeds.

### *Methods of Cost Research Study*

The Panel wishes to give all possible help to sections in stimulating an interest in cost research and suggests the following methods of study:

(A) *General:* (i) *Branch meetings or discussion* on cost research subjects, both general and particular;

(ii) *Joint meetings or discussions* with Allied Societies of the RIBA;

(ii) *Week-end conferences* of

(*a*) quantity surveyors;

(*b*) quantity surveyors and architects;

(*c*) quantity surveyors, architects and builders.

*Note:* Under (*c*), a number of Regional Joint Consultative Committees of architects, quantity surveyors and builders are now arranging such conferences, which are of great value.

(B) *Particular:* (i) *Formation of study groups or discussion groups* of quantity surveyors of between 6-12 members on a particular cost study.

The Panel will be willing to advise at all times on means of approaching speakers on their selected subjects for meetings; reasonable costs incurred by sections should be met wherever possible through branch channels but the Panel will be prepared to advise on any cases of difficulty.

# CONFERENCES ON ARCHITECTURE AND BUILDING

### *RIBA 'Planning' Evenings*

FOLLOWING the one-day Symposium on 'The living Town,' which the RIBA are holding on Friday, May 22, the Royal Institute are holding a series of three evening discussion meetings mainly for technical people. These are:—

*Wednesday, May 27: Communities and Neighbourhoods.* Chairman, Mrs. Ruth Glass, MA, Director of Research at the Centre for Urban Studies.

*Thursday, May 28: Public and Private Transport.* Chairman, Mr. C. D. Buchanan, BSc, ARIBA.

*Friday, May 29: The Big City.* Chairman, Professor R. J. Gardner-Medwin, BArch, FRIBA, Professor of Architecture at the Liverpool School of Architecture.

It is hoped that among the speakers will be Mr. J. H. Westergaard, BSc(Econ), Lecturer in Sociology at the London School of Economics; Mr. G. Brooke Taylor, PRO Hemel Hempstead Development Corporation; and Mr. J. D. C. Churchill, Assistant Secretary of the London Transport Executive.

The discussions will be held at 6 p.m. at 66 Portland-place, London, W1.

### *'Organising' for Profit in Building*

A ONE-DAY CONFERENCE for the building industry in north-east England is to be held in Leeds on June 2. Entitled 'Organising for Profit in Building,' its object is to familiarise senior executives with the newer techniques of planning and cost control which can help builders to overcome the effects of rising costs and increasing competition in the industry. There is a growing demand from the industry for this type of information.

This conference is the first to be held for the Yorkshire building industry by professional management consultants with experience not only in building but in many other industries. It will seek to place modern management techniques in their proper perspective for medium and small building firms, and will demonstrate how such firms can apply these techniques with beneficial results. It will be of interest not only to builders but to architects, quantity surveyors and sub-contractors associated with the industry.

The consulting firm has been undertaking a large amount of work in the building industry over the past 10 years. During this time it has worked for some 90 client firms in the industry and has trained some 300 building executives in its methods. Details available from Messrs. Urwick, Orr & Partners, Ltd., 14 Hobart-place, SW1.

# NEW HOSPITALS

### *14 Under Construction*

DEVELOPMENTS in the hospital service since the NHS was founded ten years ago, were described by Mr. Richard Thompson, Parliamentary Secretary to the Ministry of Health, addressing the Hospital Savings Association in London on May 7.

He said we all take the hospital service for granted. 'When we need it we usually need it badly. At any time there are nearly half a million people getting hospital treatment as in-patients in England and Wales, and well over three and a half million spend some time in hospital in the course of a year. Nearly 40 million visits are paid to out-patient departments every year; of course, many out-patients visit hospital at regular intervals.'

During the course of his speech Mr. Thompson said that when the service started, and for some years afterwards, many antiquated buildings had to be used in order to provide enough beds. He continued:

'During the first ten years £100m. was spent on hospital building, and money for this purpose has steadily increased since 1956. Last year it was £20m.; this year £22m., and next year £25½m. Five of the 14 new hospitals in various stages of construction are partly completed and already in use. This is in addition to new out-patients' departments, ward blocks, operating theatres, laboratories, X-ray departments, and extensions and improvements to old hospitals.

'Over 40 per cent of our hospital beds are occupied by mental cases, and nearly one-third of the money available for hospital capital development is going on improvements in mental and mental deficiency hospitals. As a result of the Bill now before Parliament, we hope to lighten the load on mental hospitals by relieving them of many patients not needing full hospital care who can better be looked after in the community. We are trying to break down the barrier between mental and physical sickness and to encourage people to take treatment on an informal basis as out-patients and at day hospitals.'

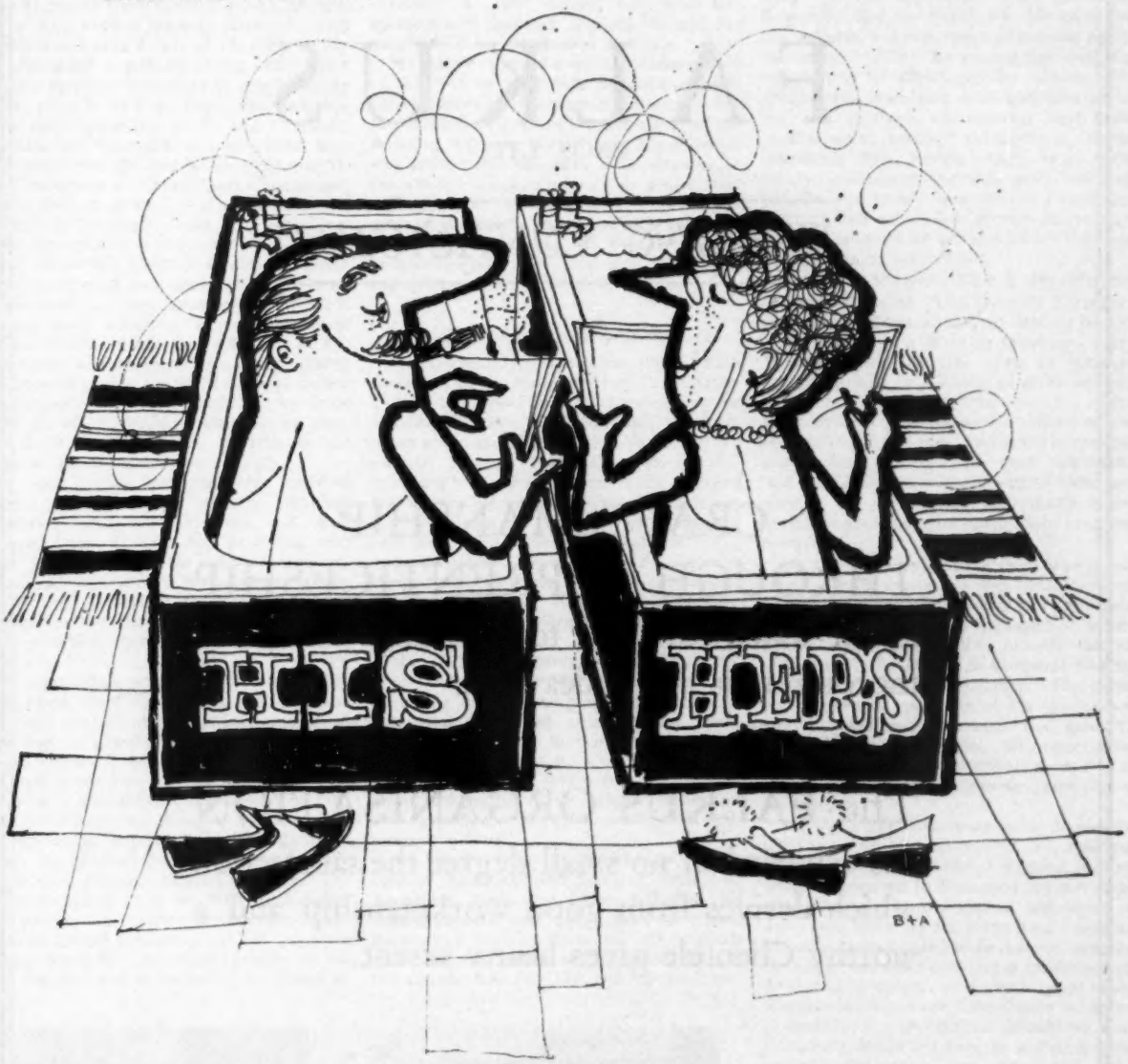
# OBITUARY

### *Sir Alfred Shennan, FRIBA*

WE REGRET to announce the death, on May 6, of Sir Alfred Ernest Shennan, MA(L'pool), FRIBA, who in addition to his work as an architect was a leading figure for many years in the civic and administrative life of Liverpool. He helped to inspire the building of the Mersey Tunnel and was for some years chairman of the Tunnel Joint Committee.

Educated at Birkenhead, he served three years in the joinery trade, but while still a young man crossed the river and studied architecture in Liverpool. After a short partnership he set up in practice on his own account. He was elected to Liverpool City Council in 1920 at the age of 33 and 14 years later his colleagues made him an alderman, a year or two after he had been created a city magistrate. He also did much valuable work for the county as chairman of the Lancashire Industrial Development Association.

**BATH-TIME TYPES** *No. 1*

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# JOINT CONFERENCE AT EXETER

## *Consultative Committee's Successful Weekend Venture*

**FROM A CORRESPONDENT**

FOR some time past the South Western Regional Joint Consultative Committee of Architects, Quantity Surveyors and Builders has been aware of the desirability of arranging a post-graduate conference for the younger members of the building team; that is to say, those between the ages, approximately, of 27 and 45 years. Because of this such a conference was arranged with the ready co-operation of the University of Exeter, and Crossmead, one of the University's Halls of Residence, was made available from April 10-12.

At the opening session MR. F. G. RADFORD, MInstBE, recently elected chairman of the committee, explained that the purpose of the conference was to cater for the needs of practising members of its constituent bodies (RIBA, RICS and NFBTE) as the committee was of the opinion that among the benefits arising would be a wider understanding of each others' problems by those members of the building team taking part. Prominent speakers were to address the assembly on seven different subjects.

It was hoped, however, Mr. Radford added, that this would serve to stimulate discussion during the conference, and much thought later. It was then explained that each speaker would be allotted approximately 45 minutes for his address; groups would then formulate questions to be put to the speaker during the time remaining and on which discussion would be profitable.

This procedure was found subsequently to work well, even though, as always, there was such evident interest in each subject as to bring forth gentle protests at the lack of time allotted. It must be admitted, however, that the procedure was correct for it was more than successful and achieved its purpose of stimulating thought, questions and discussion far beyond the anticipations of either the speakers or the committee.

MR. G. J. J. HUNT, ARIBA, spoke on 'The Structure and Role of the Building Industry and its relation to the National Economy.' He was unable to answer all the questions arising from the discussion groups in the time available and so, following the inaugural dinner, further time was given for these.

Later, an open forum was held and speakers and chairmen available formed the panel before an enthusiastic audience.

MR. HUNT received a warm welcome again on Saturday morning when he spoke on 'The Development of Management Practices for the Industry. Mr. Hunt is a consultant of the Building Advisory Service and his audience was soon aware that they were listening to yet another informative talk to which they willingly gave their attention. Following a spate of questions, readily and fully answered and discussed, he was still being requested to answer many more long after the session had come to an end officially.

### *Teamwork in Building*

MR. GEORGE W. GROSVENOR, CBE, FIOB, chairman of the National Joint Consultative Committee, spoke on 'Teamwork in the Building Industry.' His talk took the form of an appraisal of joint relations within the industry through the years with especial reference to the constitution of the Howard Robertson Committee and its subsequent formation of regional and local joint consultative committees where they had not previously existed. Mr. Grosvenor's audience showed particular interest in the subject and the questions, with subsequent discussion, were extremely gratifying in view of their constructive nature.

MR. C. D. BROWNING, ARIBA, spoke on 'Pre-Tender Cost Planning.' This all-absorbing subject was presented in such an able and interesting manner that many expressed the wish that more time could have been given to it. Certainly listeners were left with the desire for more, much more, information on the subject and it must obviously figure largely in any future Conferences planned.

MR. T. W. SNAILUM, FRIBA, past-president of the Bristol and Somerset Society of Architects, spoke on 'The Architect, his responsibilities, and their effect on Other Parties to a Building Contract.' Mr. Snailum spoke from a wealth of experience both in this country and the USA and his frank and forthright opinions intrigued his audience and left no room for doubt as to what is meant by good practice. All hope he will be heard again on this subject.

MR. T. L. KNIGHT, ARIBA, of the Building Operations Research Unit of the DSIR, spoke on 'The Application of the Results of Research,' and his theme was the need for the industry to know more about and apply the results. After the groups had had the opportunity of discussing the address Mr. Knight was inundated with questions as to the best methods of ensuring that such results were readily available to those interested. Mr. Knight must have been highly satisfied with the result of his talk and left the conference sure in the knowledge that he had created a greater interest in research amongst all sections of his listeners and one which will remain.

MR. R. H. MILDRED, FRICS, delivered the closing address on 'The Quantity Surveyor, his responsibilities and their relation to the Other Parties to a Building Contract.' Mr. Mildred's ready wit and sense of humour endears him to an audience at all times, but none more so than on this occasion. The comprehensive, and yet concise, nature of his address, coupled with his frankness impressed and pleased. It was only with reluctance that the Chairman was allowed to close the session, for all wanted very many more questions answered and much more time for discussion.

On the Saturday evening there was a sincerely voiced desire for the conference to continue beyond the time stated. Another open forum was quickly arranged at which MR. J. RADFORD, ARIBA, recently elected president of the Devon & Cornwall Society of Architects, was the chairman. The panel was formed of members of the conference and included two architects, two quantity surveyors and two builders. This impromptu forum received such approbation that it is an item which must figure more frequently in the future.

At the conference were nine architects, nine quantity surveyors and 16 building trades employers. Before dispersing, a short session was given to discussing the merits or otherwise of the conference and from it much was learnt by the committee. Among the main points raised were that the number attending was ideal and that a maximum of 40 should be agreed; at the expense of omitting one subject, more time should be given to open forums and general discussion; consideration should be given to including consulting engineers, specialists and sub-contractors; that teamwork would be enhanced by local conferences; that the limit of 45 years of age imposed on those attending should be raised. In addition to these general matters, a number of specific points were put forward, as a result of the addresses given and subjects considered, which will be receiving the attention of the South-Western Regional Joint Consultative Committee at its next meeting.

MR. J. RADFORD, on behalf of those present, proposed a vote of thanks to the committee for having made the conference possible and his words were received with acclamation. Certainly the committee was left in no doubt as to the enthusiasm of those present and that it will be necessary to hold further such conferences at least annually, if not more frequently.

Members pictured at the Conference

# IN PARLIAMENT

***By Our Parliamentary Correspondent***

## THE ROADS PROGRAMME

WHEN the House of Commons debated traffic congestion in large cities on May 7, the Minister of Transport, MR. HAROLD WATKINSON, outlined plans for more new roads and gave details of other proposals which are being considered.

He said that Britain was experimenting with roads of limited access, such as the Cromwell-road extension. This road would be finished by August, apart from the Hammersmith fly-over. It would be an enormous boon to London.

In general, more radial roads were needed in London. They are also planning a full-scale motor road. First it would be a double-decker between Chiswick fly-over and the South Wales radial road, which would be a full-scale motor road. He also hoped to announce within the next few days plans for a major 'face-lift' for the Kingston by-pass.

Link roads from the ends of the London-Birmingham motorway to the centres of Birmingham and London were being considered. The Ministry was also looking at the possibility of a motor road from Aldenham to Marble Arch. This would cost about £30m. In conjunction with the work in Birmingham it would provide a link from Marble Arch to the centre of Birmingham. Another plan was the new outlet road to the east, which would combine the present plans for a dock relief road with the Norwich radial road.

A new inner link road was being considered for London, although the cost of this would be enormous.

Mr. Watkinson said the Government were satisfied that there was no case for a Government subsidy for off-street parking.

The Minister of Works would consider a large parking site in Hyde Park if some suitable developer came forward. The garage could be underground and could hold 1,000 cars.

He stressed that there was no simple solution to the traffic problem. We should not, he said, be dazzled by the mystique of the urban motor road.

MR. G. R. H. NUGENT, Parliamentary Secretary to the Ministry of Transport, admitted that massive problems lay ahead. They could be solved by four factors: traffic engineering, highway building, enforcement of the regulations and public transport. He praised the success of the traffic control system in American cities, and said that to do the same in Britain, cities would need teams of traffic officers. We needed comprehensive traffic schemes rather than tackling the problems in the cities in piecemeal fashion.

He spoke of consultations he had had with local authority associations to ask them to advise their constituent members to start developing traffic engineering units in their departments.

MR. GEORGE STRAUSS spoke of the success of the Westminster parking meter scheme, but said that what distressed him was the length of time it took to get such a scheme into operation. On the time taken with the Marylebone scheme, it would be five or six years before all London was covered.

MR. A. E. HUNTER said he had received complaints about the slow rate at which work proceeded on the Bath-road, Cromwell-road extension and Chiswick fly-over.

MR. H. E. ATKINS warned against going ahead too fast with parking meter schemes and thus neglecting to provide for those who parked their cars all day.

## OTHER BUSINESS

### *Improvement Grants*

MRS. HARRIET SLATER asked the Minister of Housing and Local Government on April 28 what proposals he had further to encourage landlords and owner occupiers to take advantage of improvement grants to add modern amenities to their property.

MR. BROOKE: My proposals are contained in the House Purchase and Housing Bill now before Parliament. As soon as the Bill becomes law, I intend to make available a free leaflet about its provisions, to publish an illustrated booklet and to co-operate in several demonstrations which are being arranged by local authorities.

### *Professional Advice on Demolition*

MR. BAIRD asked the Minister of Housing and Local Government on April 28 if he would make it obligatory on private firms carrying out work of demolition or reconstruction to seek the advice of a qualified person employed by the local authority before carrying out such work.

MR. BEVINS, Parliamentary Secretary: 'The Minister has no power to take action on the lines suggested, but if Mr. Baird will let me have details of the particular problems he has in mind I will gladly consider them.'

MR. BAIRD asked if the Minister was aware that in a recent case at Wolverhampton where reconstruction had been carried out, a woman shopper had been killed and 'that if competent, qualified opinion had been taken before the reconstruction took place this would not have happened.'

MR. BEVINS replied that the Minister had no power at present to require a demolition contractor to seek the advice of a local authority. By and large the safety of workmen was a matter for the Minister of Labour. He was, however, prepared to discuss this matter with the Minister.

### *Planning Control (Enforcement)*

MR. CORFIELD asked the Minister of Housing and Local Government on April 28 if he was aware that the decision in the recent case of *Cater v Essex County Council* created a difficult position for local planning authorities in regard to the enforcement of planning control; and what action he proposed to take in the matter.

MR. BROOKE wrote in reply: 'Yes. I am considering in consultation with the Lord Chancellor whether an appropriate amendment can be made to the Town and Country Planning Bill now under consideration in the House of Lords.'

*** The case, which arose with regard to enforcement notices under section 23 of the Town and Country Planning Act, 1947, was decided on appeal in the High Court on April 14.—Ed.

### *Building for the Arts*

THE CHANCELLOR OF THE EXCHEQUER was asked on April 30 if he had considered the Arts Council report on Housing the Arts and what assistance he would give towards the three schemes for London for which priority was recommended. MR. SIMON, the Financial Secretary, said: 'Three parts of the Arts Council's report were published on April 23, covering London, Scotland and Wales respectively. A further part, covering the rest of the UK, will be published shortly. The Chancellor shares the view of the Arts Council that time should now be allowed for public discussion of the report as a whole, and has at present no statement to make.'

MR. KENNETH ROBINSON said that recommendations in the report were extremely modest and the least that could be expected from the Government was that financial assistance should be given for the three buildings proposed.

MR. SIMON said the important thing was to list the various recommendations, over the country as a whole, in order of priority, and the Chancellor had asked the Arts Council to give him their ideas on that. It was important that opinion as a whole, and not least provincial opinion—when the next section of the report was available—should be ascertained. There were different views about priorities and the Chancellor would take account of all the different views put forward.

### *Royal Assent for Bills*

THE Building (Scotland) Bill received the Royal Assent on April 30. Only certain sections of the Act—chiefly those empowering the Secretary of State for Scotland to make the various regulations—come into effect immediately. The other provisions will come into force on an 'appointed day' once the new building code and the other necessary regulations have been prepared.

The Highways Bill and the Terms and Conditions of Employment Bill were other measures which received the Royal Assent.

### *Replies in Brief*

'The London County Council and the Westminster City Council have been consulted and there is general agreement with our plans for the reconstruction of Chelsea Barracks.'—*Secretary of State for War.*

'Acquisition of the necessary land has taken longer than anticipated but it is planned to start demolition work during the summer' — *Parliamentary Secretary to Ministry of Transport about delay in proposed widening of Strood High-street from Rochester Bridge to railway bridge on London-Canterbury-Dover A2 trunk road.*

'The Morpeth bypass scheme is among those now being prepared for inclusion in the road programme in due course'—*Parliamentary Secretary, Ministry of Transport.*

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## BOOKS RECEIVED

A TESTAMENT. By Frank Lloyd Wright. (London: Architectural Press.) Price 70s.

SAVING DOLLARS IN BUILDING SCHOOLS. By D. Pierce. (London: Chapman & Hall.) Price 48s.

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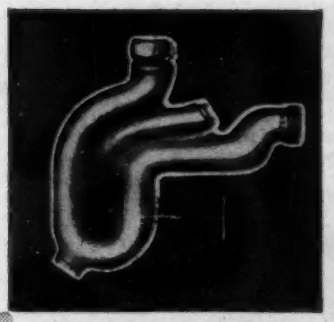

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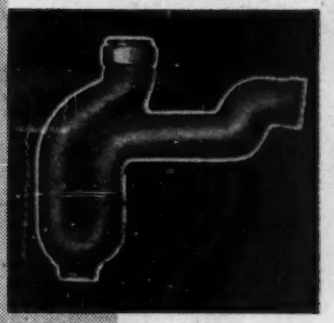

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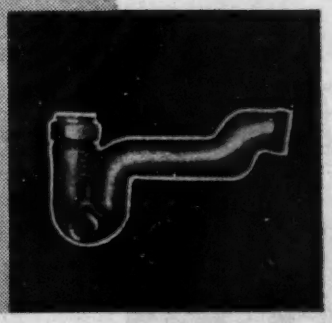

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## EVERYDAY THINGS

***By Arthur W. Kenyon, CBE, FRIBA***

### *LXXX.—Bellhanger*

I RECENTLY saw in an old kitchen a range of bells which would have done credit to any church, and I found myself trying to think how these were specified in the days when they were installed, and what trade they came under. Was it Plumber? Carpenter? So I looked up an old specification and found the heading 'Bellhanger,' but I am little wiser as there was no indication whether it was a trade on its own or part of another. The specification ran as follows:—

'Bells to be put from the following places . . . to the several positions marked. A 14 oz. bell and . . . oz. copper wire, brass cranks and coiled spring level and rose. The pulls in the principal rooms to be bronze or iron lever pulls of mediaeval character and very strong; the wire of strong copper; the cranks to be best horn cranks. Floors over bell wires to be screwed (not nailed) down for ready removal. Put ¾ in. zinc tubing for concealment and casing of the wires secured by round fine galvanised iron hooks. The bells to be hung and furnished with strong brass T-plate back and spring level carriages.'

This may not convey much to anyone now but I am sure it did to the Bellhanger.

The name of the room appeared under each bell and as these continued to ring for some time it gave the servant time to see where the call came from. Bells and servants, of course, go together. It is no use having bells unless there is someone to answer them.

When the electric bell first came in it was called Electric or Pneumatic and I find a specification running something like this:—

'Front Entrance: One ornamental bronze pull marked "Visitors" to indicate in the Kitchen.

'Tradesmen's Entrance: One plain bronzed pull to ring separate bell in Kitchen.

'Dining Room: Two black and gold porcelain pushes fixed one on each side of the fireplace to ring and indicate in Kitchen.

'Drawing Room: Two ivory and gold porcelain pushes to ring and indicate in Kitchen.

'Hall: One black and gold line porcelain push to ring on "Call" bell in Servants' Bedroom. Also one three-way pneumatic switch to change the Front Entrance bell at night so as to ring on "Call" bell in Servants' Bedroom.' (Poor servants, on call day and night!)

'Best Bedroom: One bedhead pull fixed by side of bed to ring and indicate in Kitchen. One bedhead bell fixed on the other side of bed to ring on "Chattering Call" bell in Servants' Bedroom, etc., etc.' Those were the days!

To-day we have one little bell at the front door to ring so that anyone in the house can hear it and whoever happens to be nearest to the door when it rings, answers.

For the front door there were also knockers, of course, and these have survived except in the very modern dwellings where there is no place for them. All manner of shapes were evolved from the Medusa head with snakes for hair to the lion's head with the ring through the mouth, and usually all in solid brass.

But alas for the departed bells and servants; for the cord that was pulled for extra coals for the fire and the one that brought early morning tea. No electric fires and gadgets that go by ridiculous names could hope to make up to us for the forgotten trade of 'Bellhanger.'

## TECHNICAL EDUCATION

***New Three-Year Plan Announced***

A NEW capital investment programme planned to cost £54m. for technical education in the three years after 1961 was announced recently by MR. GEOFFREY LLOYD, Minister of Education. In a Circular (No. 1/59) to local education authorities Mr. Lloyd says that in order to maintain the momentum of the advance in technical education a building programme of £15m. will be approved for 1961-62 and that programmes for 1962-63 and 1963-64 will be provisionally set at the same figure. This total programme of £45m. is expected to involve consequential expenditure of £9m. on equipment.

The £70m. building programme for the five-year period covered by the 1956 White Paper up to 1961 is progressing steadily. Building projects under this plan for new colleges or major extensions now number 359, and in 1958 the amount of work started amounted to £15m. Local education authorities will now be able to continue to plan their building work two years in advance.

The new three-year programme will provide for:—

1. Further increases in the output of advanced students in science and technology beyond the level of 15,000 a year which the plans announced in the White Paper were designed to make possible;

2. further expansion in educational provision for technicians and craftsmen to match the training opportunities which it is industry's task to provide for the growing number of young people who will be available for employment;

3. improving existing facilities in the colleges not only for teaching but also for social and recreational purposes, including hostels.

In the later two years of the programme it is proposed to give special priority to building proposals for commercial education, on which the Minister hopes soon to announce his views in the light of the Report of the Advisory Committee on Education for Commerce. There will also be some capital expenditure on art education.

Details of the 1961-62 building programme will be announced to individual local education authorities as soon as possible.

## DSIR REPORT

***Proposals for Second 5-year Plan***

THE second report of the Research Council of the Department of Scientific and Industrial Research for the year 1958, now published (HMSO, price 3s. 6d.) gives details of the Department's second five-year plan.

It has been the main duty of the Council, in its second year of office, to make proposals to the Treasury for the Department's expenditure under the second five-year plan, which runs from 1959 to 1964. This plan involves a rise of 70 per cent in the Department's expenditure, £61m. in 1959-64 compared with £53.6m. for 1954-59. The council adds that the gross expenditure should rise fairly uniformly—from about £9m. in the present year to £14m. in 1963-64 (excluding items financed outside the plan).

Turning to research associations, the Council state: 'We envisage that expenditure on revenue and capital grants to these associations will rise by about a third, because their scope and activities are growing steadily in response to the expressed needs of industry. However, it is our policy that industry should bear an increasing share of the total operating cost of the associations and we envisage that over the next five years grant-earning income from industry will be 46 per cent greater than during the last five years, the grants themselves only 34 per cent greater.'

On research stations the Council says: 'We strongly believe that the Department's research stations—changing in function and objective, when necessary, to meet the needs of a changing situation—should continue to undertake the three kinds of research that are of great importance to the nation, but have too general an application to be financed by any one industry or group of industries; research which helps central and local authorities to supply essential services and protect the welfare of the people; research which improves the efficiency of the economy as a whole; and research which provides the industry with basic information for carrying out the applied research necessary to solve its particular problems.

'All three kinds of research,' the Council adds, 'should be expanded. The growth of stations will not be uniform, but will depend on where additional effort can best be exerted in the national interest.' Concluding, the Council states that in some stations the emphasis will shift to new objectives, or to new fields of research.

The Department is arranging, with the help of the Ministry of Works, an enlarged building programme to provide space and equipment for the increased staff in its stations. The programme includes the provision of new buildings at Crowthorne, Berks., to house the Road Research Laboratory, which is at present handicapped by extremely cramped conditions; the adaptation of buildings at Thorp Arch, near Leeds, to take the National Lending Library for Science and Technology; and extensions to other stations.

# FLY-ASH AS A FILL MATERIAL

**From a Technical Correspondent**

CONSIDERABLE thought has been given in recent years to the ways in which use might be made of fly-ash, or pulverised fuel ash, produced in great quantity by the burning of pulverised fuel in thermal power stations. Amongst the successful applications is as an additive to concrete replacing some of the cement, as it has pozzolanic properties, thus being advantageous in mass concrete in reducing the heat of hydration, and its use in the manufacture of lightweight concrete products. Recently it has been suggested that it may be used as a bulk fill material.

On a small scale fly-ash has previously been used in this way. For example, at Little Lever, in Lancashire, the Urban District Council has used it to form aprons in front of garages in place of a concrete slab. It is also being used as a fill under the ground floor slabs of houses.

However, because of its low density it was suggested for an 8-ft. embankment on the Biggleswade By-Pass where the underlying material was peat. It was thought that the lighter load of fly-ash compared with normal filling materials would minimise settlement of the peat, but before using it for so important a project it seemed advisable to carry out large-scale tests the results of which are summarised below from notes supplied by the main ash disposal contractors, Messrs. Stephenson Clarke Ltd.

### *Experimental Embankment*

An embankment was constructed about 10 ft. high with a top 20 ft. long by 15 ft. wide and side slopes of 1 in 1½, with fly-ash supplied from Goldington Power Station, Bedford. The embankment was formed in 9-in. layers spread by bulldozer and compacted by 7 passes of a 6¼-cwt. tandem vibrating roller followed by 3 passes of a 25-cwt. tandem vibrating roller. Density and moisture content were measured, and California Bearing Ratio tests carried out at depths of 2 ft., 4 ft. 6 in., 6 ft. 6 in. and 10 ft.

The moisture content of each lorry load was also measured. Water is added to the ash at the power station to prevent nuisance caused by its being blown about in transit, and it was found difficult to control the moisture content at the site with any accuracy. Attempts were made to use heavier rollers but these proved incapable of operating on uncompacted ash. It would seem that the best equipment would probably be a multi-wheel pneumatic tyre roller which would give better compaction of the upper 2-in. or so of a layer than was obtained by the equipment used in the test.

Density and moisture content varied considerably, but a rough average is about 65 lb. per cu. ft. with a moisture content of about 18 to 19 per cent. The average C.B.R. values of the final layer were about 24 per cent. The ash drained well, and where drainage is possible it seems that even extremely wet weather would be unlikely to affect the ash. The compaction obtained was such that for 100 cu. yds. of finished work 139 cu. yds. of ash, as delivered, were required.

Compressive strength tests were also made on cubes of fly-ash but with extremely erratic results. Strengths from 17 lb. to 490 lb. per sq. in. were obtained at 28 days, although with fresh ash of fine grading compacted to over 80 lb. per cu. ft. a strength at 42 days of more than 200 lb. per sq. in. should be obtained.

The cementing action of fly-ash assists greatly in producing a stable embankment, and after 4 months there was no measurable settlement of the test embankment. Inspection confirmed the suitability of fly-ash as a 'selected filling material,' and it has been specified on the A1 Trunk Road Improvement Schemes at Biggleswade and Wyboston, where 3,000 cu. yds. have been already supplied. Its use, however, requires care until more is known about the control of moisture content in particular, and it should not be used in low-lying areas in wet weather.

# HOUSING PROGRESS REPORT

## *Figures for March Quarter*

THE Housing Progress Reports presented to Parliament as White Papers* by the Minister of Housing and Local Government and the Secretary of State for Scotland show that the number of permanent houses completed in Great Britain during March was 23,627 compared with 24,643 in March, 1958.

In the first three months of 1959, 60,669 permanent houses were completed compared with 65,314 in the same period of 1958.

Detailed figures at the end of March were :—

### PERMANENT HOUSES AND FLATS COMPLETED

| | Great Britain | | | England and Wales | | |
|---|---|---|---|---|---|---|
| | Post-war total to March 31, 1959 | Completions in March | Completions in 1959 to March 31 | Post-war total to March 31, 1959 | Completions in March | Completions in 1959 to March 31 |
| By Public Authorities : | | | | | | |
| Local Authorities† ... ... | 2,167,720 | 11,732 | 29,248 | 1,846,295 | 9,305 | 23,086 |
| Housing associations ... | 43,293 | 119 | 212 | 41,861 | 117 | 210 |
| Government departments ... | 74,181 | 308 | 899 | 66,490 | 194 | 785 |
| Total ... ... | 2,285,194 | 12,159 | 30,359 | 1,954,646 | 9,616 | 24,081 |
| By Private Builders ... | 891,135 | 11,468 | 30,310 | 860,508 | 10,821 | 29,163 |
| Total ... ... | 3,176,329 | 23,627 | 60,669 | 2,815,154 | 20,437 | 53,244 |

### PERMANENT HOUSES AND FLATS UNDER CONSTRUCTION

| | Great Britain | | | England and Wales | | |
|---|---|---|---|---|---|---|
| | Under construction at Mar. 31, 1959 | Under construction at Dec. 31, 1958 | Under construction at Sept. 30, 1958 | Under construction at Mar. 31, 1959 | Under construction at Dec. 31, 1958 | Under construction at Sept. 30, 1958 |
| By Public Authorities : | | | | | | |
| Local Authorities† ... ... | 131,261 | 127,331 | 133,403 | 106,238 | 101,231 | 106,288 |
| Housing associations ... | 1,166 | 1,157 | 1,156 | 1,162 | 1,151 | 1,150 |
| Government departments ... | 2,845 | 3,238 | 3,643 | 2,527 | 2,874 | 3,262 |
| Total ... ... | 135,272 | 131,726 | 138,202 | 109,927 | 105,256 | 110,700 |
| By Private Builders ... | 99,572 | 93,950 | 94,694 | 96,256 | 90,696 | 91,431 |
| Total ... ... | 234,844 | 225,676 | 232,896 | 206,183 | 195,952 | 202,131 |

### CLEARANCE OF UNFIT AND OTHER HOUSES : ENGLAND AND WALES

| | First quarter, 1959 | 1958 | Total since April 1, 1945 |
|---|---|---|---|
| Number of Houses : | | | |
| In clearance areas submitted ... ... ... ... ... ... ... | 11,466 | 36,894 | — |
| In clearance orders confirmed ... ... ... ... ... ... ... | 1,912 | 9,716 | 37,708 |
| In compulsory purchase orders confirmed ... ... ... ... ... | 5,546 | 24,078 | 100,405 |
| Demolished or closed ... ... ... ... ... ... ... ... ... | § | 55,273‡ | 261,455‡ |
| Number of Persons : | | | |
| In clearance areas submitted... ... ... ... ... ... ... ... | 33,527 | 110,813 | — |
| In clearance orders confirmed ... ... ... ... ... ... ... | 5,050 | 25,898 | 102,892 |
| In compulsory purchase orders confirmed ... ... ... ... ... | 17,966 | 72,324 | 314,371 |
| Moved from houses demolished or closed ... ... ... ... ... | § | 159,923‡ | 822,941‡ |

* Cmd. 729 Housing Return for England and Wales, HMSO, price 6d. Post-free 8d.

* Cmd. 728 Housing Return for Scotland, HMSO, price 1/3. Post-free 1/5d.

† In Scotland includes houses built or being built by Scottish Special Housing Association.

‡ The figures have been amended to include as from January 1, 1955 unfit houses owned by local authorities and those included in Unfitness Orders, etc.

§ Not yet available.

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# BUILDING IN THE CITY

### *Corporation 'Not Committed' to Thames-side Multi-Storey Garage*

WHEN the Court of Common Council approved a report of the Improvements and Town Planning Committee on May 7 setting out proposals for Redevelopment Unit No. 38—land bounded by Upper Thames-street, Swan-lane, the River Thames and Angel-passage, it was decided that the Corporation should not be 'committed at this stage' to a proposal, in the report, for the erection of a multi-storey garage for 600 cars.

The report, which was approved with that qualification, referred to an area of 1.545 acres, half of which has already been acquired by the Corporation. A compulsory purchase order is to be made for the remainder.

The proposed layout provides for the multi-storey garage, widening of Swan-lane to 40 ft., the construction of new access roads and a small improvement to part of the South side of Upper Thames-street.

The Committee recommended that the proposals should be approved and declared that the construction and management of a multi-storey garage was not likely to prove a remunerative development.

It also said: 'It is appreciated that a final decision as to whether the site should be developed by the Corporation or by private enterprise has not yet been taken by the Court.'

MAJOR S. SANDLE said he was somewhat surprised by a note that the Rates and Finance Committees concurred with the proposal which, in short, was that in order to provide land for building a multi-storey garage they would do so at a rate which, when the full money was paid, would involve charges on the rates of about £8,000 or £9,000 a year.

He moved the reference back of the scheme.

MR. B. G. ARTHUR, chairman of the Improvements and Town Planning Committee, emphasised that the final decision had not been made as to whether the site should be developed by the Corporation or by private enterprise. The Committee had been concerned in ear-marking a certain number of sites for the purpose of multi-storey garages and they had to see to it that the land should be available for that purpose. That was all the report dealt with—the purchase of the land.

He urged the Court to accept the report and recommendation because nothing could be done on the broader question until the site was purchased.

MAJOR SANDLE'S reference back was not carried, but he then moved an amendment that the Court should not be committed 'at this stage' to the policy outlined for the multi-storey garage.

MR. ARTHUR said he thought the suggested amendment did represent the feeling of the Court, and would help to make the position clearer.

The motion to approve the report was agreed with that amendment.

The Improvements and Town Planning Committee reported that the London County Council had sought the views of the Corporation on that Council's proposal to continue (in connection with the first review of the County of London Development Plan) the present restrictive policy for new developments in waterside zones on the frontage of the Thames for a further five years.

The Committee recommended, having regard to the considerable effect that the Blackfriars Bridgehead improvement scheme would have on the riverside users in the vicinity, that the London County Council be informed that the Corporation concurred in the proposals with the reservation that the site in Upper Thames-street, adjacent to London Bridge, ear-marked for use as a multi-storey garage, should be so allocated.

MR. ARTHUR said they felt that they ought not to plan out of existence valuable wharfinger interests which had contributed so much to the prosperity of the City.

### *Applications Approved*

The following applications were approved by the Court:—1 to 19 New Union-street, 19 23, 25 and 27 Moorfields, 14 Moor-lane, 11 and 13 Tenter-street (Redevelopment Unit No. 17)—erection of a new office building. (Sir John Burnet, Tait, Wilson & Partners, F/ARIBA, 9 Gower-street, WC1.)

97a, b, c and 99 to 109 (odd) Queen Victoria-street, 5 to 8 Lambeth-hill, 214 to 220 Upper Thames-street, the highways of Lambeth-hill, Brooks-yard and Boss-court, and part of St. Peter's-churchyard—Erection of a new building to be used as the offices of the International Headquarters of the Salvation Army. (H. & H. M. Lidbetter, FF/RIBA, Verulam-bldgs., WC1.)

Site bounded by Route 11, Coleman-street, Basinghall-street, and the proposed Girdlers' Hall (Site B, Redevelopment Unit No. 4)—Erection of an eight-storey office building with a basement car park. (Gunton and Gunton, FF/RIBA, Empire House, St. Martins-le-Grand, EC.)

59, 60, 61, 62, 63, 64 and 65a Gracechurch-street and 1a, 1b, 2, 3 and 4 Fenchurch-street—Erection of a new building to house the overseas branch of the Midland Bank Ltd. and three retail shops. (Whinney, Son & Austen Hall, FF/ARIBA, 37 Norfolk-street, WC2.)

'Daily Mirror,' 58 to 69 Fetter-Lane, part of 7 Holborn-circus, 5 to 11 and part of 12 Bartletts-buildings and 1 to 3 Bartletts-passage—Erection of a building comprising basement, ground floor, mezzanine, with 12 storeys over for use as a printing publishing office of a newspaper. (Anderson, Forster & Wilcocks, FF/RIBA, 9 Stone-buildings, WC2.) (Revised detailed elevational drawings to the top floor (11th floor and above.))

# BUILDING PLANT EXHIBITION

### *Opening by Lord Hailsham*

THE 1959 Building Plant Exhibition at Greenford, Middlesex, will be opened by the Rt. Hon. Viscount Hailsham, QC, Lord President of the Council, on Wednesday, June 10, at 11.30 a.m. One hundred and seventeen exhibitors are taking part in the exhibition this year, which is the largest yet organised by the Ministry of Works.

The exhibition will remain open until June 17. Admission will be from 11 a.m.-6 p.m. each day with an extension until 8 p.m. on Friday, June 12.

# BCURA 21st ANNIVERSARY

### *Open Days at Leatherhead*

IN APRIL, 1938, the British Coal Utilisation Research Association was formed to 'promate research and other scientific work in connection with the utilisation of coal and its derivatives.' To mark its 21st anniversary the Association held open days at its Leatherhead Laboratories from April 22-24, the first day being devoted to Members of the Association and special guests, the second to representatives of Government Departments, Research Associations, Universities and Technical Colleges, and the third to students from local Colleges and Schools.

Current researches in the industrial, domestic and basic fields were illustrated by exhibits and displays arranged to show how the BCURA is helping to solve some major problems concerning coal utilisation in industry and the home.

A method of automatic ocntrol for a miniature chain-grate stoker, used to fire central heating boilers (½-2 million Btu/h) in offices or blocks of flats, has been devised, and this permits ½ in. small coal to be burnt smokelessly at high efficiency over a wide range of heating loads.

New, and more accurate, methods of measuring domestic smoke emission have been developed at Leatherhead, and the total amount of smoke can be collected and weighed in an electro-precipitator. The DSIR (on behalf of the Ministry of Housing and Local Government) has now placed a contract with the Association for measurements of smoke emission from fuels and appliances, so that the Minister can make the necessary decisions regarding authorised fuels and exempted appliances which may be used in smoke control areas.

Another approach to the reduction of pollution from coal-burning appliances, has been made through the work on the measurement of dust and grit emission from boiler furnaces. The methods of sampling dust from stacks developed by the Association have aroused much interest from those concerned with enforcing or complying with the Clean Air Act. The automatic particle sizing apparatus that has been developed can, with special care, be employed down to 2 microns and can now be used to carry out eight analyses a day.

# CHARTERED AUCTIONEERS AND ESTATE AGENTS

### *Examination Awards*

THE results of the examinations of the Chartered Auctioneers' and Estate Agents' Institute, held in March, have been issued. In the Intermediate Examination 226 candidates out of 483 passed in Part I and 226 candidates out of 374 passed in Part II: 135 candidates sat for both Part I and Part II of the Examination. In the Final Examination 162 candidates out of 228 passed, and in the Direct Final Examination 26 candidates out of 39 passed.

The following awards were made:—

*The Institute Gold Medal:* C. T. Bletsoe, Thrapston.

*The Daniel Watney Medal and Prize:* A. B. Fallows, Cheadle.

*Final Examination*—First Prize: C. T. Bletsoe, Thrapston; Second Prize: Miss P. M. Andrews, Rottingdean.

*Final and Direct Final Examinations*—The Harriott Prizes—Sales of Land and Goods by Auction and Private Treaty: C. T. Bletsoe, Thrapston; Valuations (Advanced); C. T. Bletsoe, Thrapston; Compulsory Purchase and Compensation Acts: C. P. A. Darlow, Woodford Green; Agricultural Valuations and Report Writing: C. T. Bletsoe, Thrapston.

*Intermediate Examination*, Parts I and II—First Prize: J. B. Sellors, Chaddesden; Part I only—First Prize: J. B. Sellors, Chaddesden; Second Prize: M. H. Turk, Higher Horton; Part II only—First Prize: D. L. Carris, Birmingham; Second Prize—W. M. Whetter, London, W9.

# LAW REPORT

## UNFENCED HOLE ON WASTELAND: CONTRACTORS' APPEAL AGAINST DAMAGES FOR INJURIES FAILS

**Court of Appeal, Before the Master of the Rolls, Lord Justice Willmer and Mr. Justice Cassels**

***Francis Jackson Contractors Ltd. v. Ramage***

THE Court of Appeal ruled on May 5, that where occupiers of land have not made it clear that a user's licence has been withdrawn, they owe a duty to the user to protect him from any unusual danger.

The Master of the Rolls (Lord Evershed), Lord Justice Willmer and Mr. Justice Cassels upheld a decision of Judge Sir Shirley Worthington-Evans, at Uxbridge County Court awarding £125 damages for personal injuries to Miss Barbara Lena Ramage, of Denham-way, Denham, Bucks.

A piece of waste land near Miss Ramage's home had been used by the public for many years, but a part was bought by the appellants, Francis Jackson Contractors, Ltd., of Glebe-avenue, Ickenham, Middlesex, who began to build on it in January, 1958. On a night in that month, Miss Ramage was walking along a hard core track on the contractors' land which had been used by pedestrians for some time. A hole had been made in the track to accommodate a standpipe, and Miss Ramage fell into the hole lacerating her leg.

The judge held that in the circumstances, the contractors, against whom he awarded the damages, ought to have lighted or fenced the hole.

Giving the principal judgment of the Appeal Court, LORD JUSTICE WILLMER said that the contractors maintained that any licence impliedly given to the public to walk across the land was impliedly withdrawn when it was made clear that the contractors were developing the site and were building on it. His lordship agreed with the County Court judge that so far as Miss Ramage was concerned, that was not enough. The contractors had failed to make it clear to her that her licence had been determined. The hole in the hard core track created an unusual danger and it was the contractors' duty to give adequate warning to any licensee.

The contractors' appeal was dismissed, with costs.

## EXPORTING TO CANADA

***'Large Potential Market for Builders' Hardware'***

THE following report, which has been prepared by the United Kingdom Trade Commission Service in Canada, covers hardware of a type normally installed in residential and commercial buildings, consisting mainly of such items as door locks, hinges, door closers, handles, finger plates, kick plates, window catches and fittings.

Residential construction in Canada is likely to continue at the present high level for some years, and a large continuing market for builders' hardware seems assured. Canadian tastes in builders' hardware are similar to those in the USA and often differ radically from established design in the United Kingdom and other markets. Price and design are more important factors than quality. Fortunately UK prices are (with some exceptions, notably in brass and nickel) lower than those of North American competitors. UK manufacturers who have catered for the special design requirements can sell their builders' hardware in Canada successfully.

Sales of locksets and latches probably account for 50 per cent by value of the total sales of products in the builders' hardware contract trade. North American design developments have rendered standard UK locksets generally unsaleable, and only those UK manufacturers who can offer cylindrical and tubular type keys in the knob sets can share in the volume demand. The large potential market in Canada for UK builders' hardware seems to justify considerable efforts to overcome the very real difficulties which exist. Only those manufacturers who make a concentrated effort and are prepared to meet Canadian design requirements are likely to be successful.

It is strongly suggested that UK builders' hardware manufacturers who contemplate entering the Canadian market should send a senior executive to make a personal appraisal of the requirements and selling practice in the Canadian trade. Catalogue sheets, illustrated in colour whenever possible, should conform to North American size and punching standards. Whenever appropriate, packaging should accord with the standards adopted by Canadian and US competitors. Important points are easy stacking features with details marked on the ends of packages.

Price information should be clear cut, as varying additions and discounts irritate Canadian customers. UK price schedules often offend in this respect. Further information supplied by the Export Services Branch, Board of Trade, Lacon-hse., Theobalds-road, London, WC1.

## A NEW AUSTRALIAN PERIODICAL

***'Architectural Science Review'***

**From a Correspondent**

'ARCHITECTURAL SCIENCE REVIEW' has had predecessors in the form of annual publications in recent years, and now becomes a periodical under this title to be published thrice yearly. Its editor is Professor H J. Cowan, of the University of Sydney, who has become widely known for his active support of studies in this field. The first issue contains five papers, a bibliography and abstracts from current periodicals, and is to be welcomed as a creditable piece of Commonwealth initiative.

The five papers deal with a variety of subjects, thermal comfort, structural design with models, weather protection in curtain walls, tropical building, and simplified daylight design. Some have a strong practical angle, others are closer to a laboratory outlook. This is as the editor believes it should be. Certainly none of the articles is either irrelevant to architecture or difficult to read, and one or two make fresh reading even in this literature-surfeited country. In particular the article on thermal comfort seemed just the kind of descriptive handling of human mechanisms that thoughtful architects and builders like to have, and the paper on tropical building, dealing with architectural and constructional aspects of work in northern Australia and the nearby islands, was exceptionally informative and well-judged.

There are two or three matters the editor might reconsider before his format gets too firmly set. His editorial, list of contents and notes to intending authors are buried in three different places among the advertisements. This outdoes the worst of American practice, and is all the more conspicuous because the papers themselves are tidy in one block.

The typography is disappointing, and a leaf might well be taken out of the RIBA's recent experience with this. And the paper, a heavy white glossy, seems rather too much of a good thing, especially for a journal likely to be cannibalised. Incidentally, it might have been wise to have it on International paper size A4, since this seems to be coming into wide use for filing.

The publishers are the Academic Press Proprietary Ltd., Sydney, NSW, Australia. The annual subscription is 42s., post free, and single copies are 15s. (Australian £).

## PAINTING CONTRACTORS' ANNUAL REPORT

***Direct Labour and 'Do-it-Yourself' Criticised***

THE eighteenth annual report of the Federation of Painting Contractors, for the year ended December 31 last, circulated in advance of the annual general meeting, to be held at the Dorchester Hotel, W1, on May 25, states that the past year did not treat both the small master painter and the painting contractor alike.

'In many regions,' says the report, 'the lot of the smaller man has been beset with manifold difficulties in consequence of a serious falling off of innumerable routine jobs. Unemployment in various districts has, as a result, arisen; the fact remaining that the weight of the nation-wide advertising indulged in by many paint manufacturers and suppliers under the compelling caption of "Do-it-Yourself" has again made considerable inroads into the work normally falling to the master painter.

'Conversely, the painting contractor has not had to contend with this growing encroachment and is relieved of any such direct threat upon his legitimate field of activity.

'The persistent incidence, however,' the report continues, 'of direct labour operations by local authorities and the unpalatable facts they often produce continue still to concern him. Although ratepayers and taxpayers alike often evince every mistrust when considering schemes carried out in this manner, the Council of the Federation is of strong opinion that the time has long since passed for additional light being shed upon the "hidden costs" so often involved in such work.

'Public attention cannot, in the Council's view, be too urgently directed to the extent to which local authorities in particular are engaging in these activities. Often enough, the work is carried out on the pretext that ratepayers' money is being saved. From this standpoint especially, the Council again unhesitatingly challenges this assertion feeling that it behoves all having but a limited knowledge of how "on costs" are dealt with by local and other authorities when preparing their intricate and involved statements of expenditure closely to investigate and search out the undisclosed details.'

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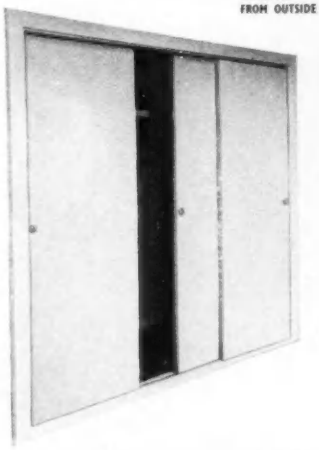

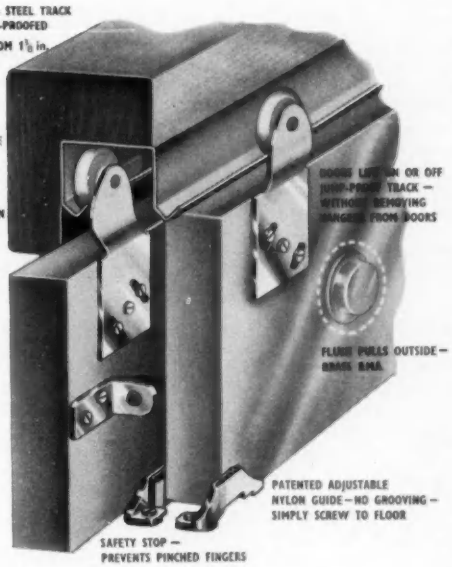


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# TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 59 of this issue. The form can be used for more than one inquiry.

## ADHESIVES

'TRETOBOND 425' INSULATION BOARD ADHESIVE: Applied to wall or ceiling with a brush and by serrated trowel to the insulation board in a uniform film over the whole surface. Within 10 minutes the insulation boards may be pressed into position and are at once bonded. Absorbent fibre-board can be coated with one application and without priming. Fibreboard, hardboard, plasterboard, asbestos board, wood, and heavy-weight plaster tiles can all be bonded to plaster, wood, metal, brick, asbestos and concrete surfaces.
*Tretol Associated Products, Ltd., Tretol House, The Hyde, NW9.*

## CONCRETE

NEW PRESTRESSED CONCRETE FITTINGS: Rolled threads with UNF form and pitch now replace the special cut thread for Lee-McCall high efficiency nuts increasing the allowable working stress from 42 to 45 tons per sq. in. Rolled-threaded bars provide for a tolerance of ±2 in. on the length of concrete units, and simplify setting-up and stressing the bars. New high tensile steel couplers of reduced size and weight have also been developed reducing the area of duct required and often avoiding any enlargement where couplers occur. An alternative wedge anchor, for all diameters of bar, is available for use where greater tolerance is required. It also provides a smaller projection beyond the end of the concrete than the corresponding nut and washer. The Lee-McCall jacks have been redesigned to stress bars with threaded or wedge anchorages. For this purpose the thrust legs are interchangeable with the secondary jacks required to drive home the wedges. (Illustration.)
*McCall and Co. (Sheffield) Ltd., 83 Kineton Green-road, Olton, Solihull, Warwickshire.*

## CONTRACTOR'S PLANT

GAS FIRED MASTIC ASPHALT COOKER: To heat 45 cwt. of mastic from cold to 450° F. in 3 hours, regulated burners with thermostatic control use only 40lb. of gas. More convenient than coke or oil heated types with a pan loading height of 5 ft. Fuel and replacement costs are low and diffused burners prevent hot spots on the pan. Design is neat and the unit is easily transportable. The casing is heavily lagged and the cooker is mounted on a straight chassis with pneumatic tyres on roller bearing hubs and cable brakes. May be operated with any type of liquid gas.
*Braham, Patterson & Benham, Ltd., Straysfield-road, Clay Hill, Enfield, Middlesex.*

## PLASTER

THE 'STEDIFLOW' PLASTER SPRAYING MACHINE: Will handle perlite, vermiculite or sand. A compact machine which can be towed or carried by lorry and may be moved by one person. The machine remains stationary at a loading point outside the building and the material is pumped through an armoured hose. It can pump up to 10 storeys in height; the spraying nozzle has fingertip controls and work may easily be stopped and restarted; any normal surface may be sprayed. For efficient operation the hopper of the machine must be kept filled and premixed plasters such as 'Carlite' are recommended. The machine is cleaned by pumping water through it.
*W. J. Roberts & Son, Ltd., Gillbrook-road, Manchester, 20.*

## ROOFING

PLASTIC GUTTER AND DRAINPIPE: a combined gutter facia and soffit unit moulded in 'Welvic' pvc, which is tough, resistant to weathering and corrosion-resistant. Since the colour is integral no painting is ever required and maintenance is completely eliminated. The gutterings are extruded in 15-ft. lengths, thus achieving a considerable saving in cost. The drainpipes are also made in the same material. The components will be available to the building trade under the trade-name 'Uniflow.' (Illustration.)
*Imperial Chemical Industries Ltd., Millbank, SW1.*
*Unity Structures Ltd., 5 Cromer-street, WC1.*

RAINWATER GOODS IN PVC: Initially they are being manufactured in traditional sizes—2½-in. down pipe, 4-in. half-round gutter, in 6-ft. lengths, with all the normal fittings in rigid pvc, but larger sizes will be introduced soon. The wall thickness is $\frac{3}{32}$-in. The initial cost is comparable to cast iron, but these fittings need no painting nor maintenance. The whole system is light in weight, easy to handle, and readily transported. Fixing is simple; a gutter bracket of special design is supplied specifically for this purpose, and no gutter bolts are required. The lengths can easily be cut.
*The Marley Tile Co. Ltd., Sevenoaks, Kent.*

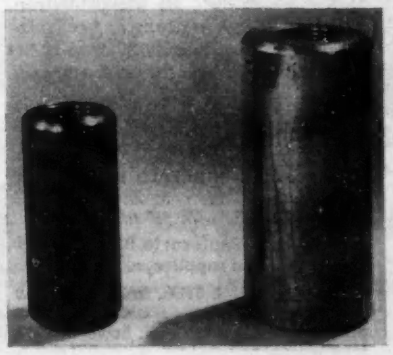
## TECHNICAL LITERATURE

TECHNICAL LITERATURE RECEIVED: 'Heating and Ventilating Equipment,' a loose-leaf folder covering the products of *Copperad, Ltd., Colnbrook, Slough, Bucks.* Three new lighting catalogues — 'Display Lighting,' from *The General Electric Co., Ltd., Magnet House, Kingsway, WC2*; 'The Fiesta Range,' from *AEI Lamp & Lighting Co., Ltd., Melton-road, Leicester*; 'The Lighting Specialists,' from *Courtney, Pope (Electrical), Ltd., Amhurst Park Works, Tottenham, N15.* 'Skirting Trunking, Underfloor and Flush-Floor Cable Trunking,' a brochure by *Davies Sheet Metal Engineering Co., Ltd., Eley's Estate, Angel-road, Edmonton, N18.* 'Automatic Central Heating and Hot Water by Gas,' an illustrated guide from *South Eastern Gas Board, Katherine-street, Croydon, Surrey.* 'Curtain Walling,' illustrated and with working details of aluminium curtain walling, by *Templewood Hawksley, Ltd., 2 Buckingham-avenue, Slough, Bucks.* 'Aluminium Rainwater Goods,' a new application brochure sold by the *Aluminium Development Association, 33 Grosvenor-street, W1.* 'Faber Venetian Blinds,' a booklet of Danish designed and British manufactured blinds. *Danaura, Ltd., 48 Notting-hill Gate, W11.* 'Britcork Flooring,' a leaflet of technical details on cork flooring tiles from *British Technical Cork Products, Ltd., Mill-road, Caversham, Reading, Berks.* 'Curtains, Blinds, Shutters' is a new catalogue from *Tidmarsh & Sons, 1 Laycock-street, N1.* 'Banbury Garages,' a booklet also dealing with prefabricated greenhouses and coal bunkers, *Portable Concrete Buildings, Ltd., Ironstone Works, East Adderbury, Banbury, Oxon.*

## UNCLASSIFIED

NEOPRENE BEARING PADS FOR BRIDGES: Maintenance-free bridge pads of neoprene are now being used throughout France in place of more expensive and complicated metal bearings. In each case the pad simply is introduced between the girder and piling. The pads range from 15.24 by 30.48 to 30.48 by 60.96 centimetres. Total thickness of the neoprene is determined by the load, amount of movement expected, and the size of the girders. Each pad is never more than 2.54 centimetres thick, but several pads may be placed together to increase the thickness. The material has an estimated life of 35 to 50 years, is extremely resistant to compression set, weathering, ozone, temperature changes, oils, and most chemicals. The bridge pads require no maintenance whatsoever and take up less space than mechanical bridge bearings.
*E. I. Du Pont de Nemours & Co. Inc., Wilmington 98, Delaware, USA.*

*right: A new smaller sized steel coupler for the Lee-McCall pre-stressing system compared with the older design*
*below: A section of gutter and soffit in 'Welvic' pvc*



## NEWS IN BRIEF

### *'Current Trends in Building'*

THE Southern Regional Council for Further Education and the Bournemouth Education Authority are to hold a regional conference for members of the building industry and associated professions and occupations, and for teachers of building, architecture and related subjects. It will be held at the Bournemouth Municipal College, Lansdowne, Bournemouth, on Saturday, June 13. The conference will assemble at 10.30 a.m., when they will hear Mr. R. Duncan Scott, FRIBA, and Mr. C. G. Drewitt, FIOB, speak on 'Current Trends in the Organisation of the Industry.' This will be followed, in the afternoon session, by a panel discussion on 'The Changed Pattern of Craft Education.' Members include Mr. G. O. Swayne, OBE, FIOB, Mr. K. H. Price, Mr. F. T. West, MBE, Mr. F. E. Olney and Mr. D. E. Wheatley, MA. The conference fee is 10s. 6d. Further details are obtainable from the Secretary of the Council at 22 The Forbury, Reading.

### *Fixed Price Basis For Contracts*

It was decided recently, by Bury St. Edmonds Town Council, that in future all contracts for the erection of council houses will be on a fixed price basis, thereby excluding the standard fluctuations clause on prices of materials and costs of labour.

### *Films of Herstmonceux*

Messrs. Charles R. Price, the main contractors for the new Royal Observatory buildings at Herstmonceux, reviewed in *The Builder* of January 16, have made a 16 mm. colour film record of both of these contracts. Part I deals with the Equatorial Group and Part II with the Time & Nautical Almanac Buildings, etc. They are silent films but fully captioned throughout and run for 22 mins. and 16 mins. respectively. They are available on free loan from the contractors, Kingsbury-road, London, NW9.

### *Converting Household Waste*

Kingston Council is to make inquiries of the Ministry of Housing and Local Government on the question of pulverising apparatus for converting household waste into fine pulp to be disposed of through the drains. It will also raise the question with the technical officers of Hogsmill Valley Joint Sewerage Board. The developers of property in Lower Ham, Maple and Portsmouth-roads, have applied to the council for approval to install in each flat one of these units.

### *Selective List of Architects*

The BDS Selective List of Practising Architects, 1959 edition, contains particulars of about 3,350 architectural practices and architects to Government departments and local authorities, with the names of partners in firms of architects and a coded classification indicating the types of work recently undertaken. The information is arranged geographically and alphabetically, and individual architects are also listed, showing the names of the firms with whom they are associated. This most useful and accurate compilation, which is kept up to date by the issue to subscribers of monthly amendment sheets, is obtainable from British Data Service, Ashlyn's-hse., Ashlyn's-rd., Frinton-on-Sea, Essex.

## PERSONAL COLUMN

A new technical representative for the London Area has been appointed by The Ruberoid Co., Ltd., manufacturers of roofing and other building materials. He is MR. A. E. PARFIT, who has been with the company since 1954.

Shires & Co. (London), Ltd., announce that MR. G. G. W. HARRISON has resigned from the company to enable him to devote himself to his other commercial interests.

The Croft Granite, Brick & Concrete Co., Ltd., announce that MR. JOHN BROWN has now joined their company as technical representative in East Anglia. He will be operating, as from June 20, from Chesford Croft, Green-la., Thetford, Norfolk (tel.: Thetford 3336). Mr. Brown joined the company from the Turriff Construction Corporation.

MR. LESLIE OLORENSHAW, a member of the executive board of the Taylor Woodrow Group of building and civil engineering companies, has been appointed a member of the parent board of Taylor Woodrow Ltd.

MR. W. B. SPENCER, general manager of the Contractors Plant Dept. (Southern Area) of Thos. W. Ward Ltd., has relinquished the position on medical advice. Mr. Spencer, who has just completed 50 years with the company will, however, continue to act in an advisory capacity. MR. D. C. COATES, who has been sales manager, will succeed Mr. Spencer as general manager, and MR. E. L. WARD is appointed sales manager.

MR. C. W. CLARKE has been appointed home sales manager of the Surform division of Simmonds Aerocessories Ltd., Treforest, a member of the Firth Cleveland Group.

The directors of The George Cohen 600 Group Ltd. announce that MR. R. GAVIN ORR, MC, MInstW, has been appointed managing director of T. C. Jones & Co., Ltd., structural engineers, reinforcement engineers and steel stockists, whose works are in London and South Wales. He was elected to the board of T. C. Jones earlier this year and, as managing director, succeeds MR. I. LEVIN, who is approaching retiring age. Mr. Levin remains a director of T. C. Jones.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## OVERSEAS BUILDING

### *From Our Own Correspondents*

*AUSTRALIA.*—The new international airport to serve Melbourne will be at Tullamarine, near the existing airport and about 10 miles from the centre of the city. Choice of the site has been welcomed by Australia's two leading airlines. . . . The Australian Government has decided that, in addition to providing housing and services arising from the planned transfer of Government departments to Canberra, the national character of the capital must be developed by special features to cost about A£3 million. Cabinet has authorised work on the Canberra lakes scheme to begin without delay. This scheme provides for the damming of the Molonglo River to make a chain of ornamental lakes in the centre of Canberra. The proposed site for the permanent Parliament House is on the shore of the lakes.

*CANADA.*—A number of buildings, at the RCAF Claresholm Airport, Alta., are to be converted into one large hospital. . . . Construction of a mental health centre, at Saint John, NB, is under consideration. . . . $9m. is to be spent on the construction of a 135-acre zoo in Montreal, Que. . . . Atomic Energy of Canada Ltd. announce the construction of a new low-power nuclear reactor and its building at Chalk River, Ontario. Constructors and engineers for this project are Foster Wheeler Ltd., St. Catherines, Ont. . . . Projected values for construction this year in Newfoundland have been estimated at $82,951,000 against $92,152,000 during 1958.

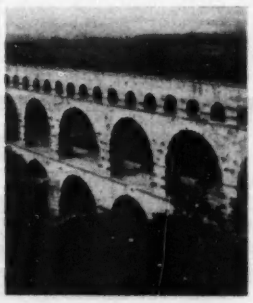
*CANADA.*—A $3,110,412 contract for a cantilever hangar, at Greenwood, NS, has been awarded to Perini (Que.) Inc. of Montreal. The same firm have won a contract for a $2,835,000 communications building for the National Research Council, in Ottawa. . . . Webb and Knapp, Ltd., announce a combined $100m. industrial and housing development project in North York, Ontario. . . . Plans for a $25m. office building in Yonge-street, Toronto, are announced by the Consolidated Building Corporation. . . . A billion dollar hydro plan for British Columbia has been advanced by the International Joint Commission. The plan calls for building at least eight great dams across the Columbia River. . . . Perini (Pacific), Ltd., have been awarded the contract for a $3,327,716 hospital in north Vancouver, BC. . . . Canadian National Railways will construct a $35m. 120-line yard, at Keele-street, Toronto.

*CEYLON.*—The general manager of the Port Cargo Corporation has submitted a three-year development plan for the port of Colombo for the consideration of the Government. This, he estimates, would cost Rs. 172m. It covers the construction of additional warehouses, piers and jetties, a Customs Sales Centre, a barge repair yard and the widening of the Beira Canal locks so that more use can be made of the Beira Lake for port cargo-handling operations. . . . The Ceylon Government have obtained the services of a Dutch expert to design a terminal building for the ex-RAF base at Katunayake, which it is proposed to make Ceylon's main international airport. . . The

## controlled strength

The strength of brickwork or masonry construction depends both upon that of the brick or block and that of the mortar. LIME mortars gauged with cement, in one of the recognised proportions, e.g. 1:1:6 or 1:2:9Cement:LIME:Sand,withagood sand, will give reliable strengths within closely known limits. Building By-laws and Codes of Practice for structural brickwork and masonry construction are based upon these known strengths. While the early strength is due mainly to the Portland Cement content, LIME gives stability, adds to the strength at later ages, and heals the incipient cracks which inevitably arise through movements of a building structure. Air bubbles incorporated by use of chemical plasticisers require more careful control and they do not contribute to strength.

## durability



A building is expected to last a long time. The materials of which it is built have to resist many different influences during its life and these cannot be measured in the laboratory—only experience can prove durability. Lean cement mortars with air bubbles entrained by chemical plasticisers may have good resistance to frost, but their durability in relation to the combination of the many other agencies—some of which are listed in the British Standard Code of Practice on Durability of Buildings (C.P.3—Chapter IX)—is still unknown. LIME-Sand mixes gauged with cement used in accordance with established practice are well known by experience to have adequate resistance to all the various causes of deterioration which may affect buildings.

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National Planning Council has recommended to the government that for geographical reasons Galle and not Trincomalee should be regarded as the main alternative port to Colombo and has prepared a development plan for the port.

*DOMINICAN REPUBLIC.*—The first meeting of a judging committee on proposals submitted by Dominican and overseas firms for a big hydro-electric scheme on the River Nizao, Dominican Republic, was held in Ciudad Trujillo recently. The committee consists of representatives of the Departments of Public Works and Agriculture and the Dominican Electricity Corporation. The scheme will include the storage of 600 million cu. m. of water and have a capacity of 135,000 kW. . . . The firm of Concretera Dominicana has contracted to build a $3.5 million air terminal for the airport at Punta Caucedo. The 9-storey building will contain all offices, customs, passenger accommodation, etc.

*INDIA.*—The Government have authorised the early implementation of seven power development schemes which at one time seemed likely to be deferred until a later stage. These are the Sharavathi Hydro-Electric Project, Mysore (891,000 kW), the Panniar Hydro-Electric Project, Kerala (45,000 kW), the Barauni Thermal Power Station, Bihar (30,000 kW), the Birsingpur Thermal Power Station, Madhya Pradesh (60,000 kW), the Bara Pani Hydro-Electric Scheme, Assam (100,000 kW) and extensions to the Ahmedabad (Bombay) and Khanpur (UP) thermal power stations. It is expected that tenders will shortly be invited (or re-invited) for the supply of equipment for these schemes. . . . A new oil company, Oil India Private Ltd., has been set up owned jointly by the Government of India and the Burmah Oil Company. The Burmah Oil Company has offered to advance £10m. towards the cost of a pipeline which will initially link the oilfields with a new refinery which is to be built at Gauhati. At a later stage a pipeline will link the oilfields with a second refinery which is to be set up at Barauni in Bihar. Pipeline requirements for the development of the new oilfields have been officially estimated as 200 miles by 1961, and 520 miles by the following year. . . . The World Bank has agreed to give India a loan of US$25m. for building the first stage of the Koyna Hydro-Electric Project in Bombay State. The loan will finance a dam tunnel system, underground power house installed with four 60,000 kW generators and associated transmission facilities on the Koyna River. The project will supply electricity to Bombay City and the districts of Salara, Kolhapur, Poona and Sholapur.

*MEXICO.*—There are a number of plans in hand for the extension of air facilities. The runway at Mexico City is to be extended to a length of 4,250 metres. A new auxiliary airport is to be built at Mexico City and new airports are also planned for Oaxaca, Yajalon, Frontera, Cacahuatepec, Pinotepa Nacional, Guaymas and Tayolita. Airports at Minatitlan and Santa Rosalia y Loreto are to be improved and the Puerto Vallarta airport is to be completed now. . . . The Ministry of Public Works has also given details of its projects on which it proposes to spend 1,047 million pesos. A vast road building and conservation programme is in the first place followed by airports at Campeche, Ciudad del Carmen and Tuxtla Gutierrez. . . . It has been announced that H. Steel y Cia. of Mexico City is to invest 5/6 million pesos in a new 12-storey building in Guadalajara. The new building will house offices, warehouses, and a factory, the latter to manufacture the whole range of office machinery. . . . Porsche Motors is to construct an assembly plant in the new industrial zone of Irapuato in the State of Guanajato, and there is a possibility that Du Pont may build a chemical plant.

*NEW ZEALAND.*—Tenders are to be called about September for a six-storey 90-ft. high Seddon Memorial Technical College day school at Auckland. The building and gymnasium will cost £450,000. The present building will be completely remodelled at a cost of £100,000 when the new building is occupied. . . . An Empowering Bill authorises the Otago Harbour Board to spend £2,100,000 for port development schemes at both Dunedin and Port Chalmers over a period of six years. The scheme at Bluff which is the port of Southland, the rich farming district in the south of South Island, involves the construction of five berths, three each of 700 ft. in length and two each of 525 ft.; and island reclamation of 84 acres with a 590 ft. access bridge for rail, road and pedestrian traffic. The cost will be £3,186,569.

*NIGERIA.*—An £8m. contract for building breakwaters in the Bight of Benin, Nigeria, has been awarded to Richard Costain Ltd., in association with Raymond International. Reporting this from Lagos, Barclays Bank DCO says the work is being carried out for the Nigerian Government and will take six years to complete. It involves the construction of a six-mile long breakwater and a separate island breakwater in the Bight of Benin.

*RHODESIA AND NYASALAND.*—Nestlés Ltd. are to erect a milk processing plant in Salisbury. Plans are now being drawn up. Rhodesian Breweries Ltd. P.O. Box 327, Salisbury, have announced plans for building a new brewery in Salisbury at a cost of £3m. . . . About £4m. is to be spent by the Southern Rhodesian Government on African housing during the next four years. . . . The Northern Rhodesian Government hopes to spend about £4m. on African housing but so far the necessary financial arrangements have not yet been made. . . . A new hospital costing about £2m. is to be built in Salisbury. It will however be built piecemeal as funds become available, and work is not expected to be completed for several years. . . . The value of approved plans for new buildings in Salisbury this year is about 40 per cent less than in recent years. Nevertheless projects worth over £4m. are due to start in Salisbury fairly soon and the rate of building is still higher than in any city in Southern Africa except Johannesburg, Cape Town and Durban.

*SOUTHERN RHODESIA.*—Plans have been put forward for building projects in Salisbury, Southern Rhodesia, valued at about £4,500,000, according to Barclays Bank DCO. These projects, which it is hoped to start on in the near future, include a new general hospital (£2m.), two new building society buildings (£500,000), a commercial building in the central city area (£80,000), and extensions to the Anglican Cathedral (£200,000).

*SUDAN.*—A contract worth about S£4½m. has been awarded to an Anglo-German consortium of English Electric and Siemens Schukerwerke in connection with the hydro-electrification of the Sennar Dam. The work includes the construction of a hydro-electric power station, an extension to the Khartoum Power Station and the erection of an interconnected system of transmission lines between Sennar, Wad Medani and Khartoum. The first stage of the project is to be completed by January, 1961, and the second by April, 1962. . . . The following priorities for American aid have been recommended: the Khogalaib Road, housing for expatriates, widening the White Nile Bridge and rural water supplies.

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## OVERSEAS CONTRACTS OPEN

**British East Africa.**—Tenders are invited for supply and installation of sewage purification plant, including machinery, pipework, valves and fittings, for the town of Eldoret. Details, together with tender documents, from the Municipality's consulting engineers, Barnett, Kirk and Mullins, Unity House, Duke-st., PO Box 5146, Nairobi, on deposit of £5. Tenders by June 19.

**Ghana.**—Tenders are invited by the Crown Agents for Oversea Governments and Administrations acting for and on behalf of the Ghana Government for the supply of four 100 kw. short-wave broadcasting transmitters, etc., together with the necessary buildings to accommodate the equipment for installation near Accra. Specifications, drawings, form of tender and conditions of contract from the Crown Agents, 4, Millbank, London, SW1, quoting the reference contract EE2 GHANA 1815 on payment of a deposit of £10. Tenders by August 31.

# The SCOTTISH BUILDER

### *£764,000 School Building Plan*

A CAPITAL building programme amounting to £764,840, to be spent over the next five years, was approved by Moray and Nairn Education Committee at Elgin recently. The programme includes a new two-stream primary school at Lossiemouth, estimated to cost £95,000, for which a start is recommended in 1961-2, and a new primary school at St. Andrews-Lhanbryde, with adaptation of the present secondary school, estimated to cost in all £49,000, to which a start will be made in 1960-1.

### *Water Distillation Plant*

AN ORDER WORTH more than half a million pounds for what will be the largest sea water distillation plant in the world has been received by G. & J. Weir, Ltd., the Glasgow engineers, from the Government of Kuwait.

### *Government Factory*

THE Board of Trade have announced that approval has been given for the erection of a 35,000 sq. ft. factory block on the Greenhill Estate, Coatbridge, which will be leased to two firms. These projects are additional to the advance factory which, as previously announced, is to be constructed at Coatbridge. This will be 45,000 sq. ft. in size and will be built on the Board of Trade Industrial Estate.

### NEW BUILDINGS

**Dunbarton CC.**—Repair depot at Millburn depot, Alexandria. Steel framed building with concrete floor; 11in. cavity brick walls to height of 5ft. thereafter the walls and roof are covered with asbestos sheeting. Overall dimensions approx. 48ft. x 38ft.—eaves 15ft. Applications to County S., 88 College-st., Dumbarton.

**Edinburgh.**—Specialist floor contractors for work in connection with wards at Craig-hse., Hospital. Applications to E. W. Hall, ARIBA, Rock-hse., Carlton Hill, Edinburgh.

**Edinburgh.**—Site preparation work in connection with Niddrie Marischal 11 housing area. Site clearance and construction of approx. 640 yds. of 6in. to 9in. dia. fireclay pipe sewers and drains, 3,900 sq. yds. of carriageways, and asphalt and ancillary works. Applications to the City E., 329 High-st., Edinburgh.

**Edinburgh.**—(a) Milton-rd. housing development contract No. 9—16 houses, six shops and 23 lock-ups, etc., and (b) temporary bungalows, remedial works. Applications to City A., City Chambers, Edinburgh 1.

**Fife CC.**—17 houses at Torryburn, third development. Contractors complying with day release regulations, all trades. Applications to County Clerk, Cupar, Fife.

**Glasgow Corpn.**—Construction of r.c. water tower of 60,000 galls. capacity and approx. 60ft. high at Barloch, Milngavie. Documents and drawings from Water Department, 50 John-st., Glasgow, C1. Dep. £4.

**Inverness CC.**—Construction of roads, paths, hard playing grounds and construction of football and hockey pitch at proposed new sch. at Diriebught-rd., Inverness. Contract documents from County C., County Buildings, Ardross-st., Inverness.

**Inverness.**—Dean of Guild approval for 59 houses at Stratherrick-rd. Est. cost £141,600.

**Lothians and Peebles Joint Police Comm.**—Separate trades for the erection of sub-divisional police headquarters and four houses at Penicuik. Tender documents from County A., Midlothian, 32 Palmerston-pl., Edinburgh.

**Midlothian CC.**—Separates trades for the erection of 13 houses at Limefield, West Calder. Applications to County A., 32 Palmerston-pl., Edinburgh.

**North of Scotland Hydro-Electric Bd.**—Several trades for the superstructure of Lednock power station, about seven miles north of Comrie, Perthshire. Tender documents from architect, G. MacDougall, FRIBA, 6 Ainslie-pl., Edinburgh 3. Dep. £2.

**Roxburgh CC.**—Construction of r.c. tank 2,500,000 gall. capacity and relative works. Plans on view at offices of engineers, Crouch & Hogg, 18 Woodside-cres. Glasgow from whom copies of specification, etc., are obtainable. Dep. £5 5s.

**Scottish Home Dept.**—Road and bridge improvements at Cartland Bridge, Lanark, on Abington-Cumbernauld Trunk-rd. A.73. Works include realignment of immediate road approaches and provision of r.c. deck slab and cantilevered walkway to existing bridge structure. Contract drawings and documents from Babtie, Shaw & Morton, 17 Blythswood-sq., Glasgow. Dep. £10.

## SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s. 2½d.

For apprentices, the rates are:

| *Year* | *Percentage of Craftsman's rate* | *For week of 44 hours* s. d. |
|---|---|---|
| 1st ... ... ... | 25 | 52 3 |
| 2nd ... ... ... | 33⅓ | 69 8 |
| 3rd ... ... ... | 50 | 104 6 |
| 4th ... ... ... | 66⅔ | 139 4 |
| 5th ... ... ... | 75 | 156 9 |

For female labour, the rates are:

| | s. d. |
|---|---|
| Operatives on craft operations (at end of probationary period) ... ... ... | 4 2½ |
| Operatives on labouring operations (at end of probationary period) ... ... | 3 8½ |

# The Builder FUTURE CONSTRUCTION

*Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues*

## CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those with an asterisk are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. A dagger (†) against the entry indicates that applications must be received by this date.

### BUILDING

**MAY 16**

***†Merthyr Tydfil CBC.**—(1) Advance preparation of housing site, and (2) 299 houses at Gurnos neighbourhood unit. E&S. Dep. £5 5s. each contract.


**B·A·T·S·F·O·R·D**

**Plumbing Materials & Techniques**

SYDNEY WEBSTER A.R.I.B.A.

Complementary to the author's PLUMBING IN BUILDING yet entirely self-contained, this new book concentrates on the techniques involved, describing in full the relevant methods and materials. 114 *illustrations* 30*s.*

**Law of Contract & Tort**

A. J. POLLAND

A cohesive digest of the basic principles underlying the law of Contract and Tort, written by a barrister-at-law to provide architects, auctioneers, surveyors and estate agents with a working knowledge of the subject. 37*s.* 6*d.*

**4 Fitzhardinge Street W.1**


**MAY 19**

**Castleisland, RI.**—New mart buildings, etc., for Castleisland Co-operative Livestock Mart Ltd. Michael O'Herlihy, Secretary, Main-st., Castleisland, Co. Kerry. Dep. £50.

**MAY 20**

***†Birmingham City C.**—Firm price tenders for 24 houses and 31 lock-up garages at Kitsland-rd. —Berrowside-rd., Shard End. City A. Dep. £2 2s. Tenders by June 22.

**MAY 21**

***†Bristol City C.**—Branch library at Filwood-Broadway, Bristol. City A. Dep. £2 2s.

***†Cannock UDC.**—Fixed price tenders for 244 dwellings at Pye Green-rd. housing site No. 53. Council's A. Tenders by June 22.

***†Ipswich CBC.**—Fixed price tenders for 80 flats at Chantry estate 3. Boro' E&S. Dep. £3 3s. Tenders by June 30.

**MAY 22**

***Bedfordshire EC.**—Fixed price tenders for (a) alterations and improvements to provide hostel accommodation for students at 15/17 Lansdowne-rd., Bedford, and (b) alterations and extensions to provide kitchen at Southill county prim. sch. County A.

***†Birmingham City C.**—Firm price tenders for structural alterations and extensions (during occupation) at Vittoria Restaurant, Frederick-st. City A. Dep. £2 2s. Tenders by June 22.

***†Folkestone BC.**—Branch library at Wood-ave. Boro' E. Dep. £2 2s.

**MAY 23**

***Haverhill UDC.**—17 garages, with ancillary works, at Paske-ave. and Fern Grove. E&S.

***†Southampton CBC.**—Prim. sch. at Kane's Hill, Thornhill. Boro' A. Tenders by June 22.

**MAY 25**

**†Newcastle-on-Tyne EC.**—Fourth stage of Rutherford College of Technology at Ellison-pl. City A.

***†Somerset CC.**—Fixed price tenders for erection of Keynsham grammar sch. (Phase II). County A. Dep. £2 2s.

***†South Western Regional Hospital Bd.**—Three-storey ward block, with roads, etc., at Southmead hospital, Bristol. Secretary to Bd.

***†South Western Regional Hospital Bd.**—Fixed price tenders for:—(a) canteen and kitchen at Southmead hospital, Bristol; (b) nurses' home at Southmead hospital, and (c) modernisation of northern part of St. Catherine's block at Stoke Park hospital, Bristol. Secretary to Bd.

***†Twickenham BC.**—Branch library at Percy-rd., Whitton, Middx. Boro' E. Dep. £3 3s.

**MAY 27**

***†Cambridge City C.**—Demolition works and

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"I don't want to brag but you won't find my equal anywhere. In flats, offices and converted houses I can deal diplomatically with front door callers 24 hours a day. At the push of a button I put each one through to the appropriate occupant's telephone, admit them only when so desired and relock the door as they close it. That means no tiring journeys up and down stairs for residents, no 'gate crashers' and no need for a Hall Porter. Small wonder I'm so popular with Architects and Builders everywhere".

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# Garages by MARLEY

Made of high grade reinforced concrete with asbestos cement roofing, these garages are strong and proven. Of unsurpassed appearance and spacious dimensions, they are fire and rot proof and virtually maintenance free.

All the necessary components are supplied for assembly by unskilled labour. Alternatively they can be supplied and erected by Marley experts.

**Prices from £55 cash or attractive credit terms.**

All garages may be extended in length by multiples of 1' 4"

**MARLEY MINOR**
Width 7' 10"
Lengths 11' 2" to 19' 5"

**MARLEY MEDIUM**
Width 9' 2"
Lengths 14' 1" to 22' 4"

**MARLEY MAJOR**
Width 11' 10"
Lengths 14' 1" to 22' 4"

**MARLEY MAGNA**
Width 13' 2"
Lengths 14' 1" to 22' 4"

**MARLEY MULTIPLES**
Width 8' 6"
Lengths 15' 8" and 17' 3". Choice of "Weirise" up-and-over doors, or traditional timber.

**TILED ROOF GARAGES**
Width 9' 2"
Lengths 14' 1" to 22' 4"

**MARLEY CONCRETE COAL BUNKERS** in 6, 9, 11, 18, 22, 27, 33, 36 and 44 cwt. capacities. **Prices from £4 15 0 plus carriage**

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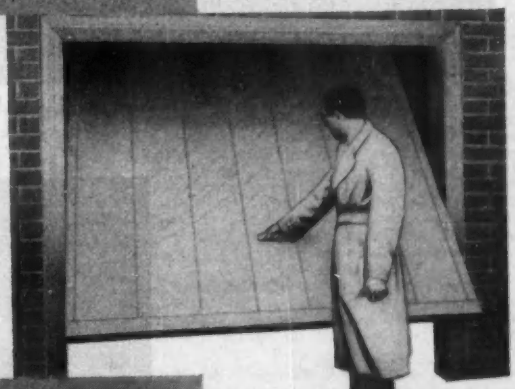

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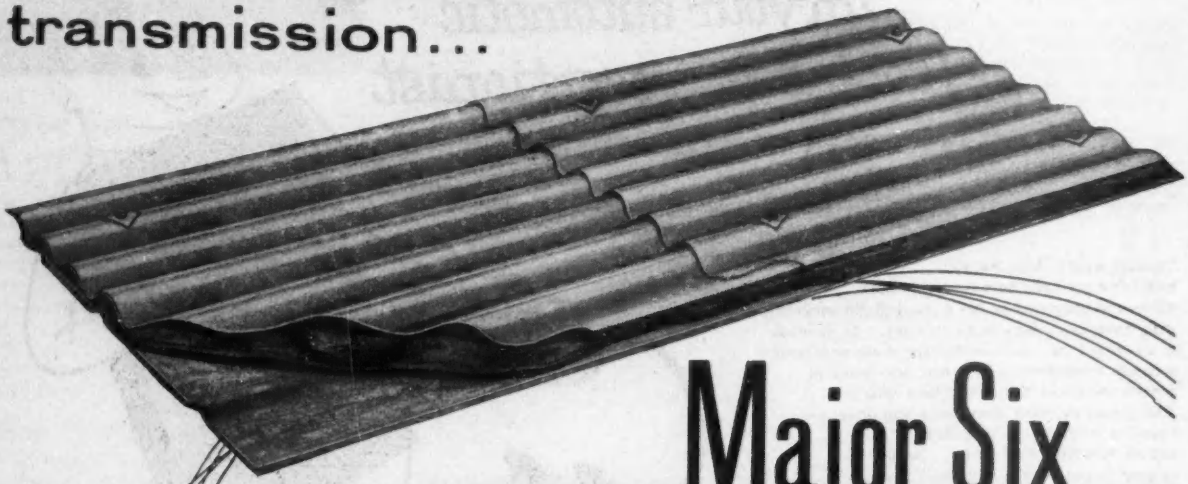
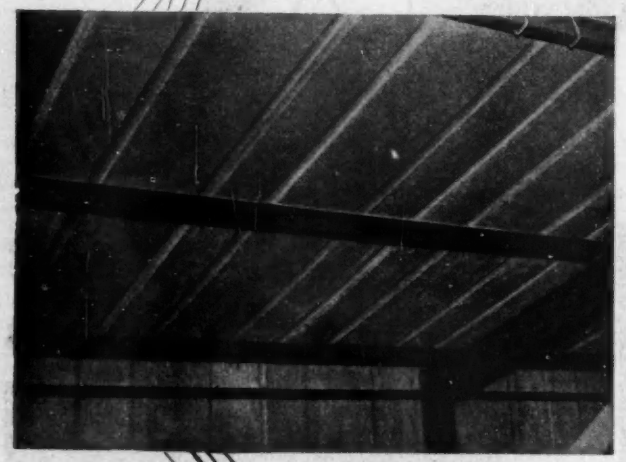
# High resistance to thermal transmission...



# Major Six

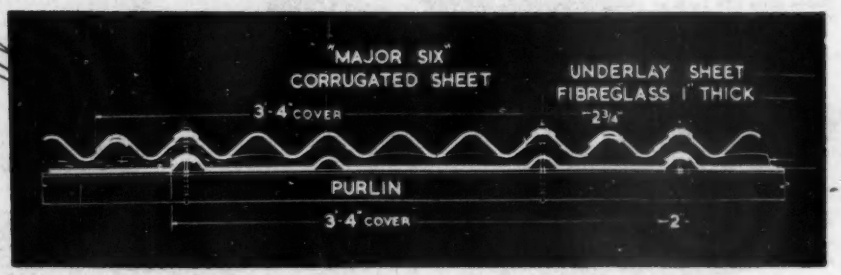
## DOUBLE CLADDING INSULATION



*Photograph above illustrates interior view of roof*

" Major six " DOUBLE cladding insulation provides a high resistance to thermal transmission, contributing to higher equable interior temperature and consequent economical heating. Here is dependable roofing made for quick erection and permanent service.

It's the DOUBLE cladding that does it !—a rigid asbestos-cement underlining sheet laid directly to purlins as a soffit upon which the sheet of insulation is laid before putting the " Major six " sheet in position.

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29 old people's flatlets, with Warden's accommodation and common room at Christchurch-st. City S. Dep. £3 3s. Tenders by June 30.

***†Durham CC.**—(a) Alterations and adaptations to Consett Technical College, Medomsley Edge premises; (b) eight police houses at Newton Hall estate. Framwellgate Moor, and (c) two police houses at Wellfield-rd., Murton. County A.

***Manchester City C.**—(a) 11 dwellings at Arlington-st., Crumpsall, and (b) 14 dwellings at Baricraft-rd., Burnage. Director of Housing.

**Yeovil BC.**—Six houses at Sunningdale estate. Boro' S.

**MAY 29**

***Esher UDC.**—14 old persons' dwellings at Freelands-rd., Cobham, Surrey. E&S. Dep. £2 2s.

**JUNE 1**

***Caterham and Warlingham UDC.**—Demolition of six cottages and erection of six houses at Sunnybank, Warlingham. E&S.

**Chester City C.**—Fixed price tenders for 150 houses, flats and bungalows at Plas Newton estate. City E&S.

***Holywell UDC.**—Fixed price tenders for:—(a) roads, sewers, water mains, etc., and (b) 32 houses and 12 bungalows at Greenfield Hall estate. E&S. Dep. £2.

***Newton-le-Willows UDC.**—Fixed price tenders for 42 bungalows at Heald farm estate. E&S. Dep. £2 2s.

***†West Riding of Yorkshire CC.**—Playground at Baildon CE aided sch. Divisional A. Tenders by June 15.

**JUNE 4**

**Down, NI, County EC.**—New tech. sch. at Newtownards. W. H. Stephens & Sons, 13 Donegal-sq. North, Belfast. Dep. £5 5s.

***Sutton and Cheam BC.**—Firm price tenders for:—(a) Internal alterations to main pavilions at Cuddington and Sutton Common recreation grounds; (b) new brick lean-to building at Cuddington recreation ground pavilion, and (c) new brick storage building at Cuddington recreation ground bowling green. Boro' E&S. Dep. £1 1s.

**JUNE 8**

**Downpatrick, NI, RDC.**—3 blocks of 4-storey maisonettes, with site works and demolition of existing property at Windmill-st, Ballynahinch. Ogilby & McCutcheon, 9 Upper-cres., Belfast. Dep. £5 5s.

**Gillingham BC.** — 19 bungalows at Petham Green and Begonia-ave. Boro' E. Dep. £5 5s.

***Heston and Isleworth BC.**—New kitchen, stores and cloakroom accommodation at Chatsworth jun. sch. Boro' E&S.

**Walsall CBC.**—(1) 10 houses at Heather-rd. (2) 20 houses at Ripon-rd. (3) 24 houses at Mossley estate. (4) 28 bungalows at Mossley estate. (5) Nine bungalows at Blakenhall-la. (Separate tenders.) Boro' E&S. Dep. £2 2s.

**JUNE 10**

***Brighton CBC.**—Fixed price tenders for:—(a) adaptations to sanitary accommodation at Downs jun. sch.; (b) new sanitary accommodation at Elm Grove infants' sch.; (c) extension to dining room at Stanmer sch., and (d) adaptations to Varndean Holt. Boro' S, E&Planning Officer. Dep. £2 2s.

***Cardiff City C.**—Fixed price tenders for:—(a) 10 flats at Macauley-ave., Llanrumney; (b) 35 dwellings at Clarbeston-rd. and College-rd., Gabalfa; (c) 14 aged persons' bungalows at Newborough-ave., Llanishen, and (d) two houses at Grand-ave., Ely. City A. Dep. £2 2s. each contract.

**JUNE 12**

***Canterbury City C.**—Fixed price tenders for: (a) 58 old people's units and five houses at Union-st., New Ruttington-la., and (b) 26 old people's units and three houses at Monastery-st. City A. Dep. £2 2s.

**JUNE 15**

**Aldershot.**—84 'Homeville' dwellings at Heron Wood estate. Boro' E&S. Dep. £2 2s.

***Banbury BC.**—Fixed price tenders for:—(a) 44 houses; (b) 46 houses, and (c) 50 houses at Neithrop estate, section III. Boro' E&S. Dep. £2 2s.

**JUNE 25**

***Cambridge City C.**—60 maisonettes and 13 terrace houses at East-rd. development. City S. Dep. £2 2s.

**NO DATE**

***Chislehurst and Sidcup UDC.**—Conversion of No. 33 Station-rd., Sidcup, into 10 old people's flatlets. E&S. Dep. £2 2s.

**'THE BUILDER' PRICES**

Until further notice, 'The Builder' Current Prices of Materials section will appear in the first issue of each month only. The 'Measured Prices for New Building Work in London' feature will appear in the second issue of each month. Alterations in materials prices noted since May 1 are as follows:—

| | | £ | s. | d. | | £ | s. | d. |
|---|---|---|---|---|---|---|---|---|
| Pit ballast ... | Per yd. | 1 | 5 | 5 | + | 1 | 0 | |
| Pit sand ... ... | ,, | 1 | 3 | 8 | + | 1 | 0 | |
| Washed sand ... | ,, | 1 | 6 | 9 | + | 1 | 0 | |
| ¾ in. shingle ... | ,, | 1 | 4 | 3 | + | 1 | 0 | |
| Copper tubes ... | Per lb. | | | 27½ | − | | 0¾ | |
| Copper sheets ... | Per ton | 261 | 0 | 0 | − | 4 | 15 | 0 |
| Brass tubes ... | Per lb. | | 1 | 10¾ | − | | | 0¾ |
| Lead sheet & pipe | Per ton | | | | + | 3 | 0 | 0 |

**SERVICES, PAINTING, MATERIALS, ETC.**

**MAY 20**

***Manchester City C.**—(a) Lead clothed steel glazing bars, or aluminium alloy bars, and (b) sheet lead. Gen. Mgr., Corporation Transport Dept.

**MAY 21**

**Birmingham City C.**—Building materials. City E&S.

**MAY 22**

**Enfield BC.**—Road and building materials. Boro' E.

**MAY 23**

***†Essex CC.**—Firm price tenders for:—(a) internal redecorations at Chelmsford Rainsford county sec. sch. and (f) external and internal redecorations at Maldon prim. sch. County A.

**MAY 25**

***Hereford City C.**—Chain link and close boarded fencing at Ross-rd., and Newton farm estate. Housing A. Dep. £1 1s.

***Twickenham BC.**—External painting of 96 houses at Butts farm estate. Boro' E&S. £2 2s.

**MAY 29**

***†Swansea CBC.**—(a) Electrical installation, and (b) heating, hot and cold water, gas and engineering services to new block at Swansea Technical college. Boro' A. Dep. £5 each contract.

**MAY 30**

***St. Albans City C.**—External painting of 659 houses, 56 flats, eight old folks' bungalows and 25 garages. City E&S. Dep. £2 2s.

MAKE AND KEEP THOSE WALLS dry
WITH HIGH SILICONE CONTENT
Penetrex 53
*This highly efficient Water Repellent is quickly and easily brushed or sprayed on to stone, brick, or any of the usual materials. Coverage of up to 270 sq. ft. to the gallon, depending on the porosity of the surface. Sizes from Pint Tins to 5-Gallon Drums. PENETREX is a clear colourless liquid, or can now be had in 12 pleasing colours for treating very porous surfaces. Ask your Merchant or write to mfrs., F. A. WINTERBURN LTD. Holborn Street, Leeds, 6. Phone 25692*

**JUNE 1**

***West Riding of Yorkshire CC.**—Internal and external painting of Percy Jackson grammar sch., Woodlands, nr. Doncaster. Divisional Education Officer.

**JUNE 2**

***Great Yarmouth CBC.**—Fixed price tenders for: (a) oil-fired central and domestic water heating; (b) electrical services, and (c) one passenger lift at hostel for 60 aged and blind persons, Magdalen College estate, Gorleston. Boro' E. Dep. £2 2s.

**JUNE 4**

***Northern Ireland Electricity Bd.**—(a) Thermal insulation on roofs of certain ancillary buildings, and (b) purpose-made steel handrailing at Coolkeeragh power station, Londonderry. Kennedy & Donkin, Bd's. constg. engrs., 64 Royal Exchange, Manchester, 2.

**JUNE 5**

***Hornsey BC.**—Installation of oil-fired low pressure hot water heating system at 6 North Hill, N.6. Boro' E&S.

**JUNE 12**

***Brentford and Chiswick BC.**—Internal and external redecorations at Staveley-rd. boys' sch., Staveley-rd., Chiswick. Boro' E&S.

**MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.**

**MAY 27**

**Laoighis, RI, CC.**—428 lin. yd. of 6in. and 1,852 lin. yd. of 9in. sewer, with manholes, ventilating columns and fittings and sewage disposal works at Clonaslee. Nicholas O' Dwyer & Son, constg. engrs., 6 Burlington-rd., Dublin. Dep. £10 10s.

**South Kesteven RDC.**—2,300 lin. ft. of sewers, 3,750 sq. yd. of concrete road and footpaths with kerbs, as extension to Millfield estate, Deeping St. James. Ccl's. QS, 41 North-st., Bourne, Lincs. Dep. £2 2s.

**MAY 28**

**Nant Conway RDC.**—Dolwyddelan water supply.—Two miles of 2in., 3in. and 4in. asbestos-cement pipes, with fittings, etc. Charles J. Lomax & Sons, engrs., 68 Barton-chbrs., Barton Arcade, Deansgate, Manchester, 3. Dep. £3 3s.

**MAY 30**

**Portadown, NI, BC.**—Reconstruction of Seagoe sewage disposal works. Boro' S. Tavanaghhse., Portadown, N. Ireland. Dep. £5 5s.

**JUNE 1**

**Great Ouse River Bd.**—(1) New sluice at Hemmingford Mill, nr. St. Ives, Hunts. (2) Reconstruction of two sluices at Bromham Mill, nr. Bedford. (3) New weir at Shefford Mill, Shefford, Beds. E to Bd. Dep. £5 5s.

***Huyton-with-Roby UDC.**—3,000 sq. yds. of two course hot rolled asphalt at Tarbrook-rd., A.5080. E&S.

**JUNE 2**

**South Cardiganshire Water Bd.**—(1) 8,300yd. of 9in. asbestos-cement pipes, 500yd. of 9in. spun-iron pipes with Tyton joints and 720yd. of 4in. asbestos-cement pipes with screw joints, etc., between Rhos Ymryson to Postmawr main and Llandyssul link main. (2) 10,400 yd. of 6in. asbestos-cement pipes with screw joints, 1,150yd. of 6in. spun-iron pipes with Tyton joints, etc., between Tan-y-groes and Cardigan main. Rofe & Raffety, engrs., 9 Brewer's-green, Buckingham-gate, SW1. Dep. £2 2s. each contract.

**JUNE 3**

**Uckfield RDC.**—Fixed price tenders for 3,160yd. of 6in. and 9in. dia. stoneware sewers, manholes, sewage disposal works, site works, etc., at Wadhurst. S. Dep. £2 2s.

**JUNE 5**

**North Cornwall Joint Water Bd.**—Tintagel water supply.—2,000yd of 6in. dia. CI water main, nr. Delabole, N. Cornwall. Lemon & Blizzard, Bd's. constg. engrs., 1 Glenside, College-ave., Mannamead, Plymouth. Dep. £3 3s.

**JUNE 6**

**Chesterton RDC.**—Fixed price tenders for 7,100 lin. yd. of 9in., 7in. and 6in. dia. spun-iron and stoneware pipe sewers, pumping station, 700 lin. yd. of 6in. dia. spun-iron rising main, etc., in Stapleford and Little Shelford parishes. Willcox, Raikes & Marshall, engrs., 33 Great Charles-st., Birmingham, 3. Dep. £5 5s.

**JUNE 10**

**Downpatrick, NI, RDC.**—South east trunk main.—4.3 miles of 6in., 12.8 miles of 4in. and 12 miles of 3in. dia. spun-iron mains. C. Quoile-rd., Downpatrick. Dep. £5 5s.

**JUNE 12**

**Forehoe and Henstead RDC.**—Costessey sewerage.—6,700yd. of 6in. and 9in. concrete and glazed stoneware sewers, manholes, 905yd. of 4in. dia rising mains, two pumping stations, etc. Elliott & Brown, Ccl's. constg. engrs., Stanley-hse., Pelham-rd., Nottingham. Dep. £5 5s.

**JUNE 15**

**Ministry of Transport and Civil Aviation.**—Three pedestrian subways in r.c. across Bath road at Cranford, adjacent to High-st., The Avenue and Parkway. Harry Brompton, MICE, constg. engr., 7 Hobart-pl., Westminster, SW1. Dep. £10.

**Rugby RDC.**—5½ miles of 9in. and 6in. salt-glazed ware and concrete sewers, with concrete tube manholes, 3½ miles of 8in., 7in. and 5in. asbestos-cement pumping main, with three pumping stations, in Ryton-on-Dunsmore, Brandon, Wolston and Stretton-on-Dunsmore parishes, and sewage purification works in Wolstone parish. J. D. & D. M. Watson, Ccl's. constg. engrs., 67 Tufton-st., SW1. Dep. £10 10s.

**JUNE 16**

**Ministry of Transport and Civil Aviation.**—New bridge over River Thames, nr. Bell Weir, on Staines by-pass, trunk road A.30, with associated river protection and flood relief works. C. W. Glover & Ptnrs., constg. engrs., Francis-hse., Francis-st., SW1. Dep. £25.

**JUNE 18**

**Government of Northern Ireland.**—Construction of 3 miles of Belfast south approach road, between Belfast and Dunmurry, Co. Antrim, including seven-span prestressed r.c. viaduct, with slip roads and traffic roundabout, two prestressed r.c. bridges 45ft. and 50ft. span and one precast r.c. railway bridge.

**Hemel Hempstead RDC.**—Bovingdon and Flaunden main drainage.—15,000 lin. yd. of 6in., 9in. and 12in. dia. sewers and rising mains, three pumping stations and modifications to sewage disposal works. Howard Humphreys & Sons, Ccl's. constg. engrs., Victoria Station-hse., Victoria-st., SW1. Dep. £5 5s.

**JUNE 23**

**Caerleon UDC.**—850yd. of 18in.-6in. dia. concrete pipes as main sewers and stage I sewage disposal works, etc. Thomas & Morgan & Ptnrs., constg. engrs., 23 Gelliwastad-rd., Pontypridd. Dep. £3 3s.

**JULY 1**

**East Riding of Yorkshire CC.**—Two miles of dual carriageway forming North Ferriby by-pass, on Liverpool-Leeds-Hull trunk road, A.63, including two r.c. overbridges. County S. Dep. £20.

**Middlesex CC.**—Four miles of new 24ft. carriageway alongside Barnet by-pass from Mill Hill golf course to South Mimms, including two-span overbridge with half clover-leaf approaches, r.c. culverts, three roundabouts, drainage, footpaths, etc., on London-Edinburgh trunk road, A.1. County E&S. Dep. £25.

**Middlesex CC.**—New road to by-pass Staines from 'Crooked Billet' PH. to River Thames (1¼ miles) on London-Penzance trunk-road, A.30. County E&S. Dep. £25.

## GENERAL BUILDING WORK

### (LONDON)

**Croydon.**—Flats and Garages.—New Ideal Homesteads, Ltd., 61 South-st., Epsom, have received planning and by-law approval for eight flats and seven garages on the site of 10 Birdhurst Rise, South Croydon.

**Croydon.**—House Building Programme.—The Housing Com. has approved layout plans for 18 dwellings at Leighton-st./Sumner-rd. and four at St. James's-rd. and it is proposed to include these in 1959 housing programme. The MH&LG has approved the following schemes:—172 dwellings on Castle Hill estate, Addington (second stage); 233 dwellings on Shrublands site (third stage); 114 dwellings at Central Parade, New Addington, 50 on site of Mayday-rd. Homes; and 40 at Regina-rd.—The Housing Com. has informed the MH&LG that tenders will be submitted in September for 12 dwellings at Trinity-rd./Gloster-rd. and six at Totton-rd. and that, in the period October-December, 1959, tenders will be submitted for 24 dwellings on Avenue-rd./Warminster-rd. site; 62 at Ashburton estate; 20 at Foss-ave. and 100 at Wingate-cres.—Proposals for the development of the Castle Hill No. 2 site have been approved for by-law and TP purposes as follows:—21 houses, 90 flats and 88 garages at Castle Hill-ave.; eight houses and 36 flats at Walton Green; three houses at Betchworth-way, and 14 houses at Tilford-ave.—Fineman, Lever & Co., 77 Wimpole-st., W1, received provisional TP approval for 52 flats, eight maisonettes and 58 garages on the site of 252-260 South Norwood Hill, Upper Norwood.

**Croydon.**—Remand Home Extension.—The Children's Com. of the LCC has approved a scheme for a new wing and improvements to Cumberlow Lodge remand home. The building work is estimated to cost £29,087 and electrical and heating installations another £10,113.

**Deptford and Greenwich.**—Houses, Flats, Maisonettes and Garages.—The LCC has approved proposals for developing the Czar-st. site, situated between Trinity and Hughes Fields estates and Sayes Court open space. After the reservation of land for a children's-care office, a youth centre, road widening and a public house, 12 acres will be available for new housing. The total accommodation proposed is 360 dwellings in three 11-storey blocks of flats, three five-storey blocks of flats, five four-storey blocks of maisonettes, three two-storey blocks of flats and four terraces of two-storey houses. The 11-storey blocks will be provided with electric floor-heating and will be served by two lifts and each five-storey block will be served by a lift. There will also be a doctor's surgery, six play spaces, 37 garages, parking spaces for 54 cars and 154 tenants' stores.

The estimated cost of the development is £965,100, including provision for a new children's-care office to replace premises to be demolished.

**Islington.**—Site Acquisition.—The LCC proposes to acquire two clearance areas and a site totalling 4.32 acres in extent, in the vicinity of Gifford-st. It is estimated that 160 dwellings can be erected on the land.

**Lewisham.**—Houses, Bungalows, Flats and Garages.—The LCC Housing Com. has approved a scheme for 26 houses in 2 terraces, 2 old persons' bungalows, a block of 6 small flats, car parking spaces and 6 garages at Elderton-rd. at an estimated cost of £90,500.

**Leyton.**—Offices.—By-law approval has been given to the erection of a new office building on the site of 13-14 Lemna-rd., E11, for Robert Hart (Investments), Ltd.

**Leyton.**—Factory.—By-law approval has been given to the proposed erection of a new factory at Church-rd. for J. H. Smith & Sons, Ltd.

**Poplar.**—Site Acquisition.—The LCC proposes to acquire two sites totalling 1.27 acres in extent at Jefferson-st., St. Leonard's-st. and Priory-st. Parts of the properties will be required for road improvement in connection with the Blackwall Tunnel approach scheme. It is proposed to develop the remainder of the lands in conjunction with land already in the Council's ownership, making a total of 3 acres available for the erection of about 105 new dwellings.

**Poplar.**—Site Acquisition.—The LCC proposes to acquire an area and site nearly two acres in total extent at Rowlett-st. It is estimated that 69 dwellings can be erected on the lands.

**Southwark.**—As a first stage of a comprehensive scheme approved by the LCC Housing Com. for the area bounded by London-rd., St. George's-rd., Princess-st. and Garden-row, four small sites amounting to about 3.3 acres are to be developed. An eleven-storey block (with 2 lifts and electric floor-heating) will be set in an amenity open space between Burman-st. and Gaywood-st. and will have a doctor's surgery on the ground floor. A five-storey block with lift, on the London-rd. frontage, will contain five shops with maisonettes above. The site between Gaywood-st. and Princess-st. will be developed by a five-storey block of maisonettes and flats linked by a common staircase and lift with a three-storey block of flats. On the site at the corner of Garden-row and St. George's-rd. there will be two four-storey blocks of maisonettes linked by flats.

In all there will be 127 dwellings, together with two play areas, 59 tenants' stores and a parking area. The estimated cost of the scheme is £390,400.

**Wandsworth.**—The LCC Housing Com. has approved proposals for the development of an area of 7.5 acres comprising part of the island site bounded by North-dr., Ullathorne-rd., Aldrington-rd. and West-dr. by 143 dwellings in three 6-storey blocks of flats (with penthouses and lifts), a 3-storey block of 1-room flats and 7 terraces of 2-storey houses. There will also be 2 playgrounds, 47 tenants' stores, 9 garages and a car-parking space. As many as possible of the fine trees on the site will be retained. The estimated cost of the scheme is £380,700.

**Westminster.**—Offices and Garage.—A contract for the erection of the two interconnected blocks of offices with sub-basement garage which are proposed on the site, now being cleared, of 1-19 Victoria-st., SW1, is in process of negotiation between the owners, the Legal and General Assurance Co., and Taylor Woodrow Construction, Ltd., 10 Park-st., W1. The architect is Ronald Fielding (A), Aldwych-hse., WC2.

### (PROVINCIAL)

**Bakewell.**—Sheffield Regional Hospital Bd. proposes improvements at Newholme hospital, £40,000 est.

**Blackburn.**—EC approved plans for new high sch. for girls, £194,930 est.

**Chailey, Sussex.**—East Sussex CC proposes 60-bed old peoples' home at Roundhay-rd., Peacehaven, next year, £75,000 est.

**Letchworth.**—UDC to build 250 dwellings at Grange estate as immediate instalment of development under town expansion agreement with London CC, increasing number of dwellings to be built to 1,750. 1,500 dwellings are to be erected at Jackman's estate by UDC under this agreement, but extensive off-site works are required and it is estimated that 2½ years will elapse before dwellings at latter site can be occupied. E&S: E. L. Johnson, MIMunE.

**Manchester.**—TC proposes four blocks of 9-storey flats and three blocks of 4-storey maisonettes adjoining Hollyhedge Roundabout, Wythenshawe; combined clinics at corner of Charlestown-rd., Southdown-cres. and Planthill-rd., Blackley; new maternity and child welfare centre at corner of Monton-st. and Woodbine-st., Moss Side, and new prim. sch. and nursery at Williams-rd., Newton Heath.

**Milford Haven.**—Outline plans approved for nine-storey hotel with penthouse accommodation for Milford Haven Conservancy Bd. at Fort Hubberston, for Milford Haven Hotels, Ltd. Provision made for ballroom, conference hall, restaurant, offices, shops, swimming pool, 'motel,' 108 bedrooms and six private suites. Part of old fort will be demolished. A: Gunton & Gunton (F), Empire-hse., St. Martin's le Grand, EC1.

**Ryde, IoW.**—British Railways prepared scheme for additional covered accommodation for 1,300-1,400 persons at Ryde Pierhead, £40,000 est.

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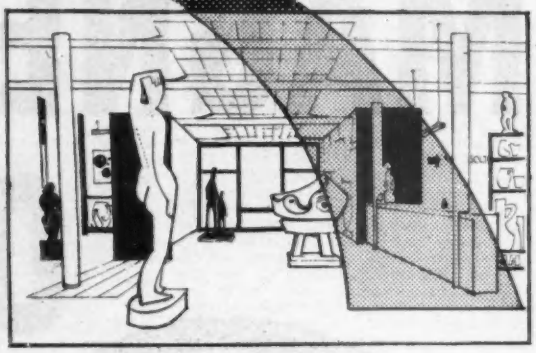

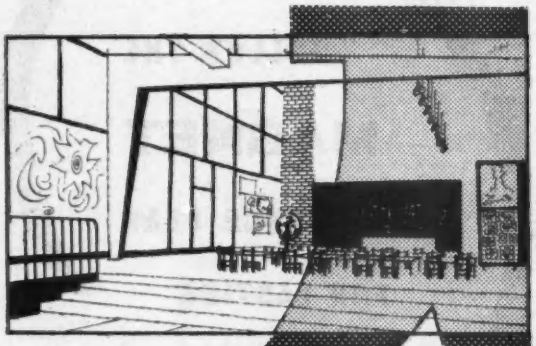

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**Ryde, IofW.**—MofE approved provision of new building for Ryde county sec. sch. £148,000 est., in 1961/62 programme.

**Rye.**—MofH approved East Sussex CC's proposal to build new police HQ on site of Cinque Ports hotel.

**Salford.**—TC proposes 15-storey block of flats at St. Matthias clearance area.—Approved erection of 2-storey club premises at Trafford-rd. for British Legion.

**Sheffield.**—Regional Hospital Bd. received Ministry approval for provision of 90 beds for chronic sick patients at Tickhill-rd., Doncaster. —Clarks of Retford, Ltd., Hallcroft, East Retford, propose conversion of Balfour Cinema, Darnall, into modern sorting and parcelling depot.

**Sunderland.**—Alex Cameron & Sons, Ltd. paint manufacturers, propose to carry out extensive alterations to their Villiers-st. works. Matkin & Hawkins (F), 53 Fawcett-st. are A for conversion of Villiers Cinema, Villiers-st., into paint and drum store for Camrex Paints, Ltd.

**Sunderland.**—CBC to seek powers to stop up the whole or parts of 14 streets in West-st. area, 19 streets in the Camden-st. area, and seven streets in the East Cross-st. area, in connection with the proposed development of those areas for industrial purposes.

**Tynemouth.**—TC received inquiry from firm for factory site for making of sports cars.—J. T. Bell & Sons, builders, Market-st.-chbrs., Newcastle-on-Tyne, seek planning permission for 600 houses at Marden North.

**Wakefield.**—RDC approved plans for 58 houses and 46 bungalows off School-la. and Shay-la., Walton, for Lawefield Estates, Ltd., 20/30 Lawefield-la., Wakefield.

**Walsall.**—TC approved layout for 169 dwellings in Orlando-st. redevelopment area.—Taubman Property and Investment Co., Ltd., 75 Regent-st., W1, propose redevelopment of Odeon Cinema, High-st., Bloxwich, for shopping purposes.

## TENDERS

* Denotes *accepted*.
† Denotes *provisionally accepted*.
‡ Denotes *recommended for acceptance*.
§ Denotes *accepted subject to modification*.
¶ Denotes *accepted by H.M. Government Departments*.

**Andover.**—Fixed price tenders for 20 flats and site works at Clarendon-ave., for BC. Boro' S. *Eades Bros., Ltd., Charlton, Andover. £30,273.

**Ashton-under-Lyne.**—New divisional police headquarters for Lancs. CC. *J. Gerrard & Sons, Ltd., Swinton, nr. Manchester. £227,750.

**Bridge-Blean.**—(a) 30 dwellings and eight garages at St. Vincent's-close, Littlebourne. (b) 16 dwellings at Hoath for RDC. A: H. V. Godfrey (A), 63 Oxford-st., Whitstable. QS: A. W. West, FRICS, 24 St. Margaret's-st., Canterbury. (a) B. R. Rigden & Son, £49,584; H. W. Collingwood, £47,500; W. E. Cox (Sheerness), Ltd., £46,828; G. Lewis & Sons (Dover), Ltd. £41,952; *Margate Building & Decorating Co. Ltd., 45 Dane-hill, Margate, £39,009. (b) R. B. Rigden & Son, £27,731; W. E. Cox (Sheerness), Ltd., £22,200; *S. R. Bowell & Son, Ltd., Minster-dr., Herne Bay, Kent, £21,979.

**Canterbury.**—Extension to county tech. sch. for girls, Barton Court, Canterbury, for City C. City A: John L. Berbiers (F), AMTPI. QS: Widnell & Trollope, Broadway Court, Westminster, SW1. *J. E. Wiltshier & Co., Ltd., Stour-st., Canterbury. £73,000.

**Carlisle.**—Contracts placed by City C, April 6-23 (subject to Ministerial consent and loan sanction):—Four shops and flats (Block No. 2) at Stonegarth, Morton estate. *J. Laing & Son, Ltd., Carlisle. £18,354.—Botchergate, reconstruction. *Eden Construction Co., Ltd., Carlisle. £29,121.

**Chesterfield.**—60 dwellings at Dunston Hall estate for TC. Direct labour. £74,717.

**Clowne.**—Two blocks of flats and four bungalows at Larpit Green, Whitwell, for RDC. *Robert Harrison & Sons, Ltd., Sheffield. £13,442.

**Cuckfield.**—22 dwellings at Grange-rd., Crawley Down, for RDC. E&S: A. Hutchings, MBE, MIMunE. †Saunders (Contractors), Ltd., London-rd., Burgess Hill, Sussex. £27,985.

**Dudley.**—Extensions to factory and new offices at Oakey-st. for B.A.L., Ltd. *Wm. Jackson (Langley Green), Ltd., Langley Green, Birmingham.

**East Retford.**—10 houses and six bungalows at Finningley for RDC. *J. Brown & Son (Retford), Ltd., 31 Cobwell-rd., Retford. £21,141.

**Eccles.**—40 houses at Tindall-st. for BC. Boro' E&S. *F. Gannon & Son (Manchester), Ltd., 64 Osborne-rd., Levenshulme, Manchester, 19, £60,319.

**Grimsby.**—Fixed price tenders for new weights and measures offices at King Edward-st. for CBC.—*General building contract:* ‡J. H. Thompson & Sons, Ltd., Grimsby. *Oil-fired heating installation:* ‡F. Margarson, Grimsby. *Electrical installation:* ‡L. Hancock, Grimsby.

**Hove.**—16 two-bedroom flats at Poplar-ave./Sherborne-rd. for BC. Boro' E&S. *T. J. Braybon & Son, Ltd., Princes-hse., North-st., Brighton, 1. £25,347.

**Leamington Spa.**—New branch library at Lillington for BC. *G. Wimpey & Co., Ltd., London. £15,359.

**Leyland.**—Fixed price tenders for 64 dwellings at Lower-hse. estate, Leyland, for UDC. Boro' E&S: F. D. Howe, MIMunE. *A. Spencer & Sons, Ltd., Bold-st., Accrington, Lancs. £77,182 (for Council's own design).

**Liverpool.**—New factory at Flint-st. for J. Kirkham & Co., Fruit Exchange-bldgs. *J. B. Johnson & Co., Ltd., 17 Overton-st., Liverpool. —Stage 2 of new shop and office building at Lord-st. for Car-Aven Properties, Ltd. *James Crosby & Sons, Ltd., 59 Queens-gdns., W2.

**¶London (Air Ministry).**—New works contracts to the value of £500 or over for week ended May 8:—*Building work:* Sealand, Flintshire, Pochin (Contractors), Ltd., King-st Works, Middlewick, Ches.; Leconfield, Yorks., F. Shepherd & Son, Ltd., Blue Bridge-la., York. *Artificers' work:* Hack Green, Ches., George Blease & Co., Ltd., Henry-st., Sawmills, Crewe, Ches.; Bovingdon, Herts., etc., W. H. Streeter, Tudor-rd. Works, Hampton, Middx. *Paving (renewal):* Marham, Norfolk, Richard Costain, Ltd., 111 Westminster Bridge-rd., SE1 *Boiler house plant (installation):* Digby, Lincs. and Cottesmore, Rutland (two contracts), The Freeman Heating Co., Ltd., 314-314A Balham High-rd., SW17; Waddington, Lincs., David Peters (Heating Engineers), Ltd., 58 Rodney-st., Liverpool *Sewage ejectors (supply and installation):* Maidstone, Kent, Fiskerton, Notts. and Dundee, Hughes & Lancaster, Ltd., Acrefair, nr. Wrexham, Denbigh.

**London (British Railways).**—Recent contracts placed by North Eastern Region:—Fabricated steelwork for temporary girders for bridgeworks, T. Storey (Engineers), Ltd., Stockport.—Middlesbrough and Newport motive power depots—demolition, R. Dodds & Sons, Richmond.—Cooper Bridge No. 182—replacement of arch bridge by steel girder bridge, Wellerman Bros., Ltd., Sheffield.—Newport marshalling yard—concrete bridge beams for crossing Stainsby Beck, Girlings Ferro-Concrete Co., Ltd., Leeds. —Crofton District engineer's permanent way depot, earthworks, M. Harrison & Co. (Leeds), Ltd., Farnley, Leeds.

**London (British Railways).**—Contracts placed by Southern Region:—Bickley station/Bickley Junction: strengthening and drainage of embankment, Geo. Wimpey & Co., Ltd., W6.—Sherborne signal box: foundation piling, The Cementation Co., Ltd., SE11.—Staines Central: New car park, W. H. Gaze & Sons, Ltd., SW15. —Hither Green: new continental goods shed, Taylor Woodrow Construction, Ltd., Southall, Middx.—Victoria carriage cleaning shed: electrical installation, Bective Electrical Co., Ltd., WC2.—Yeovil Town motive power depot: insulation of cold water service, Kitson's Insulation, Ltd., Barking, Essex.—Motspur Park line: asphalting of station roofs, Durable Asphalt Co., Ltd., N1.—Winchester City: new signal box, G. E. Price & Son, Ltd., Southampton.—Ashford (Kent) Chart Leacon: new electrical repair shop, inspection shed and ancillary buildings, John Mowlem & Co., Ltd., SW1.—Nine Elms goods yards 'C,' 'H' and 'J' sheds: roof repairs, Macartney & Sons, SW9.—Crawley new goods yard: new loading dock and ancillary works, James Longley & Co., Ltd., Crawley, Sussex.—Victoria Eccleston bridge: new footbridge, The Cleveland Bridge & Engineering Co., Ltd., SW1. —Lancing: Aerial survey, Meridian Airmaps, Ltd., Shoreham Airport, Sussex.—Bembridge, Isle of Wight: dredging, James Contracting and Shipping Co., Ltd., Southampton, Hants.—Exeter district: resurfacing and surface dressing of roads, footpaths and station platforms, W. & J. Glossop, Ltd., Exeter.—Dover Priory station: new staff accommodation, R. J. Barwick & Sons, Ltd., Dover, Kent.—Riddlesdown: station improvements, Truett & Steel, Ltd., Thornton Heath, Surrey—Paddock Wood/Ashford/Bexhill: Aerial surveys, Hunting Aerosurveys, Ltd., Boreham Wood, Herts.—Eridge/Eastbourne/West St. Leonards: aerial surveys, Meridian Airmaps, Ltd., Shoreham Airport, Sussex.—Brockenhurst/Poole/Lymington: aerial surveys, Meridian Airmaps, Ltd., Shoreham Airport, Sussex.—Basingstoke/Winchester—Brockenhurst: aerial surveys, Fairey Air Surveys, Ltd., W1.—Wokingham: new car park, W. & J. Glossop, Ltd., SW18.

**London CC.**—Renewal of electrical installations to improved standards at Totterdown Fields estate, Wandsworth.

*Section 1*

| | |
|---|---|
| City Electrical Co., Ltd. | £22,141 |
| Archibald Saville & Co., Ltd. | 21,476 |
| Rae Electric (London), Ltd. | 17,449 |
| *Electric Contracts (London), Ltd., Westminster | 16,762 |

*Section 2*

| | |
|---|---|
| Evans & Shea, Ltd. | £19,019 |
| Beaufort Electrical Engineering Co., Ltd. | 18,831 |
| J. & W. Mayer, Ltd. | 17,357 |
| Rashleigh, Phipps & Co., Ltd. | 16,581 |
| *Holliday & Son (Electrical), Ltd., Wandsworth | 15,828 |

*Section 3*

| | |
|---|---|
| Grierson, Ltd. | £21,192 |
| A. G. Purdy & Sons, Ltd. | 20,183 |
| Johnson, Smith & Co., Ltd. | 18,624 |
| Carr Bros. & Carr (Wandsworth), Ltd. | 16,516 |
| Jenkins Electrical, Ltd. | 16,503 |
| Haines & Sheppard, Ltd. | 16,375 |
| N. G. Bailey & Co., Ltd. | 16,321 |
| *Holmes & Larkinson, Islington | 16,252 |

Chief Engineer's comparable estimates are £16,900, £18,300 and £19,200, respectively.

**¶London (MoW).**—Contracts placed for week ended May 1:—*London:* St. James's and Hyde Parks, repairs to roads and footpaths, H. V. Smith & Co., Ltd., 24 Ashley-pl., SW1; Northumberland-hse., Northumberland-ave., WC2, dismantling and removal of two lifts, J. & E. Hall, Ltd., Dartford Ironworks, Dartford, Kent. *Middlesex:* National Physical Laboratory, Teddington, erection of building, E. Gostling (Bldrs.), Ltd., St. Clare Works, Holly-rd., Hampton Hill; new timber working section, Samuel Elliott & Sons (Reading), Ltd., Caversham, Reading. *Midlothian:* 39 Drumsheugh-gdns., Edinburgh, replacement of electric passenger lift, Evans Lifts, Ltd., Prospect Works, Abbey-la., Leicester. *Northumberland:* Ministry of Pensions and

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*Auditors.*
*April 22nd, 1959.*

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*Surrey:* Ministry of Agriculture, Fisheries and Food, Weybridge, instrumentation panels for incubator sterilisers, Sunvic Controls, Ltd., P.O. Box One, Adams-hse., Stone Cross, Harlow, Essex.

**¶London (War Dept.).**—Works contracts placed for week ended May 1:—*Dorset:* (Lulworth), miscellaneous, Devon Contractors, Ltd., Exeter; (Blandford), painting and decorating, P. J. Hartel (Southern), Ltd., Southampton. *Glamorgan:* (Bridgend), miscellanous, J. W. Protheroe & Son, Penarth. *London:* (NW7), Roadwork, Thomas Roberts (Westminster), Ltd., Wellingborough. *Middlesex:* (Hounslow), building, H. Goodsell & Son, Ltd., Maidstone. *Midlothian:* (Edinburgh), building, T. Boland & Co., Ltd., Edinburgh. *Oxfordshire:* (Bicester), fencing, Allen (Fencing), Ltd., Shepperton; (Bicester), building, Simcock & Usher, Ltd., Northampton. *Wiltshire:* (Perham Down), roadwork, O. J. Elliott & Co., Ltd., Bristol; (Devizes), miscellaneous, Gaiger Bros., Ltd., Devizes; grass cutting, John Waterer Sons & Crisp, Ltd., Twyford, Berks.

**Manchester.**—Following for Regional Hospital Bd.:—Extensions to maternity department at Sharoe Green hospital, Fulwood. *F. Parkinson, Ltd., Mowbray-dr., Blackpool. £90,924.—Extensions to X-ray department at Withington hospital, Manchester. *R. Carlyle & Co., Ltd., Elsinore-rd., Trafford Park, Manchester. £41,485.

**Mere and Tisbury, Wilts.**—Additional three-storey wing and conversion of Wardour Castle, nr. Tisbury, for use as boarding sch. for 180 girls of Cranborne Chase sch., for Governors. *W. E. Chivers & Sons, Devizes. £200,000.

**North East Metropolitan Regional Hospital Bd.**—Works for Bd. Regional A: W. G. Plant (F), 40 Eastbourne-terr., W2. Stage I (Out-patients' Dept.) at Harlow New Hospital. *Y. J. Lovell & Son, Ltd. £278,798 (work started).—Development of St. Clement's hospital, Bow-rd., E3, as psychiatric hospital. *Robert S. Hart & Sons, Ltd. £47,997.

**Ripon.**—Bondgate redevelopment—13 flats and a shop for City C. A: Anthony Steel & Owen (A), 199 Anlaby-rd., Hull. QS: Rex Procter, Hull. *Allton & Co., Contractors, Ltd., Ure Bank Top, Ripon. £21,072.

**Rishton.**—Phase 1 of St. Peter's and St. Paul's C of E sch. for School Managers. *D. L. Grimshaw & Co., Ltd., Wood Top, Bury-rd., Rawtenstall.

**Rochdale.**—Phase 1 of new Technical College at Holland-st. for EC.—‡Charles R. Price, Ltd., Barnsley-rd., Doncaster.

**Rotherham.**—New police traffic headquarters and weights and measures offices at Mesbrough-st. for BC. *C. Earnshaw, Ltd., 35 Gilberthorpe-st., Rotherham.—Following for RDC:— 15 aged persons' bungalows at Thurcroft. *Sweeting & Co., Brampton-rd., Thurcroft, Rotherham. £16,735.—16 houses and 12 bungalows at Whiston and 16 dwellings at Wickersley. *C. Earnshaw (Rotherham), Ltd., 35 Gilberthorpe-st., Rotherham. £38,797 and £19,209.

**Southwell.**—18 houses at Easthorpe for RDC. *Fleet Bros., Ltd. 72/74 Newgate-la., Mansfield. £28,601.

**Totnes, Devon.**—New civic hall for BC. *F. J. Stanbury, Ltd., Plymouth. £31,560.

**Trowbridge.**—10 houses for UDC. *T. Holdoway & Sons, Ltd., Westbury. £19,091.

**Wakefield.**—Following for RDC:—28 dwellings at Sharlston site. *Harlow & Milner, Ltd., Wakefield. £42,771.—10 dwellings at Middlestown. *T. W. Newton, Horbury. £12,457.

**Winchester.**—80 dwellings for RDC. *Bryan Developments, Ltd. £112,222.

**Wood Green.**—Fixed price tenders for:—(a) 36 maisonettes and 18 flats at Winkfield-rd./Acacia-rd.; (b) six dwellings at Devonshire Hill-la. for BC. Boro' E&S: A. J. Rebbeck, AMIMunE. *Stox (Contractors), Ltd., Empress Works, Boreham-rd., Wood Green, N22. (Subject to MH&LG approval.)

**Worthing.**—Six-storey block of 24 flats on Sea Front for Hallmark Securities, Ltd. A: H. Hubbard Ford & Associates (F), 24A Cornfield-rd., Eastbourne. *Gee, Walker & Slater, Ltd.


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61 BARTHOLOMEW CLOSE
E.C.1
MONarch 7597-8
Works:
CRAYFORD BRIDGE
KENT
CRAyford 25544-5-6-7

# OFFICIAL ANNOUNCEMENTS

**COMPETITIONS CONTRACTS PUBLIC APPOINTMENTS**

**Rate: 30/- per inch, minimum ½-inch; each additional line 2/-**

**PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE**

## CONTRACTS

### HEREFORD CITY COUNCIL.

FENCING AT ROSS-ROAD AND NEWTON FARM ESTATE, HEREFORD.

TENDERS are invited for the SUPPLY AND ERECTION OF CHAIN LINK AND CLOSE BOARDED FENCING at a site in Ross-road, Hereford, and CHAIN LINK FENCING at a site at Newton Farm Estate, Hereford.

Conditions of contracts, drawings and specification may be obtained from Norman Roberts, A.R.I.B.A., Architect (Housing), Town Hall, Hereford, upon deposit of £1 1s. 0d. (returnable after submission of a bona fide tender).

Tenders (together with the drawings and specification) are to be returned in the envelope provided endorsed "Fencing —Ross-road and Newton Farm" to reach the undersigned not later than 12 noon on MONDAY, the 25th MAY, 1959.

The lowest or any tender will not necessarily be accepted.

T. B. FELTHAM,
Town Clerk.

Town Hall,
Hereford.
8th May, 1959.

### COUNTY BOROUGH OF GREAT YARMOUTH.

HOSTELS FOR 60 AGED AND BLIND PERSONS, MAGDALEN COLLEGE ESTATE, GORLESTON.

FIXED PRICE TENDERS are invited for MECHANICAL INSTALLATIONS at the above comprising (a) OIL FIRED CENTRAL AND DOMESTIC WATER HEATING, (b) ELECTRICAL SERVICES, and (c) ONE PASSENGER LIFT.

Tendering particulars with Forms of Tender may be obtained on or after 13th May from the Borough Engineer's office where working drawings and contract conditions may be inspected. Deposit of £2 2s. 0d. returnable upon receipt of a bona fide tender not subsequently withdrawn is required to be submitted with application to tender for one or more of the above.

Tenders in the envelopes provided must be delivered to me not later than first post TUESDAY, 2nd JUNE, 1959. The Council does not bind itself to accept any tender.

FARRA CONWAY,
Town Clerk.

Town Hall,
Great Yarmouth.
29th April, 1959.

### CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

NO. 33 STATION-ROAD, SIDCUP—CONVERSION INTO 10 OLD PEOPLE'S FLATLETS.

Contractors wishing to TENDER should apply immediately to Engineer and Surveyor, Manor House, Sidcup, for Bills of Quantities and Tender Documents enclosing £2 2s. 0d. to be refunded on receipt of a bona fide tender not subsequently withdrawn.

### BOROUGH OF TWICKENHAM.

TENDERS are invited for the ERECTION OF A BRANCH LIBRARY IN ONE SINGLE STOREY BLOCK AND SITE WORKS at Percy-road, Whitton, Middlesex. Contractors desiring to be considered for inclusion in the list of tenderers should forward their names and addresses together with a deposit of £3 3s. 0d. (returnable on receipt of a bona fide tender or non-inclusion in the list) to the Borough Engineer, Municipal Offices, Twickenham. Drawings may be inspected on application to the Borough Engineer. Applications must be received by MONDAY, 25th MAY, 1959. Specification and Drawings will be forwarded to the selected contractors. The Corporation do not bind themselves to accept the lowest or any tender. W. H. JONES, Town Clerk, Municipal Offices, Twickenham.

### COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

EDUCATION DEPARTMENT.

DON VALLEY DIVISIONAL EXECUTIVE.

TENDERS are invited from Painting and Decorating Contractors for the INTERNAL AND EXTERNAL PAINTING OF THE PERCY JACKSON GRAMMAR SCHOOL situate at Woodlands, near Doncaster. Specifications and forms of tender are obtainable from the Divisional Education Officer, County Offices, Station-road, Doncaster, to whom completed tenders must be returned by not later than noon on MONDAY, 1st JUNE, 1959.

### CITY OF CANTERBURY.

HOUSING CONTRACTS.

FIXED-PRICE TENDERS are invited for the ERECTION of HOUSES and OLD PEOPLE'S DWELLINGS as follows:—

1. 58 OLD PEOPLE'S UNITS AND 5 HOUSES at Union-street, New Ruttington-lane.
2. 26 OLD PEOPLE'S UNITS AND 3 HOUSES at Monastery-street.

Bills of Quantities can be obtained from the undersigned upon payment of two guineas deposit. Drawings and Conditions of Contract can be inspected at my office.

Tenders to be submitted in the endorsed envelope provided not later than 12 noon on FRIDAY, 12th JUNE, 1959.

JOHN L. BERBIERS,
City Architect.

Municipal Buildings,
Canterbury.

### SOUTH WESTERN REGIONAL HOSPITAL BOARD.

SOUTHMEAD HOSPITAL, BRISTOL.

The Board proposes to invite TENDERS for the ERECTION of a THREE-STOREY WARD BLOCK in brick construction with reinforced concrete floors and roof. The Building will entail considerable excavation and duct construction with roads, paths and sewers.

The project has been planned by and will be carried out under the direction of the Regional Architect.

Contractors possessing substantial organisation and resources who are willing to tender for this work are invited to submit their names.

From the names submitted a panel of contractors will be chosen who will be furnished with Bills of Quantities.

Contractor's applications should reach the undersigned not later than 25th MAY, 1959.

M. O. CARTER,
Secretary.

27 Tyndalls Park-road,
Bristol, 8.

### SOUTH WESTERN REGIONAL HOSPITAL BOARD.

SOUTHMEAD HOSPITAL, BRISTOL.

The Board proposes to invite FIXED-PRICE TENDERS for the ERECTION of a THREE-STOREY EXTENSION to the NURSES' HOME, of brick construction with reinforced concrete floors, external works and ground lay-out.

The project has been planned by and will be carried out under the direction of Messrs. Day & Dakin, 9 Clare-street, Bristol.

Contractors willing to tender for this work are invited to submit their names.

From the names submitted a panel of contractors will be chosen who will be furnished with Bills of Quantities.

Contractor's applications should reach the undersigned not later than 25th MAY, 1959.

M. O. CARTER,
Secretary.

27 Tyndalls Park-road,
Bristol, 8.

### CITY AND COUNTY OF BRISTOL.

TO BUILDING CONTRACTORS.

Libraries Committee invite TENDERS for ERECTION OF BRANCH LIBRARY (approximately 31,000 sq. ft.) at Filwood Broadway, Bristol.

Contractors willing to submit fixed-price tender apply to City Architect, Council House, Bristol 1, by 21st MAY, enclosing 2 gns. deposit, payable to Bristol Corporation, refundable on receipt of bona fide tender not subsequently withdrawn.

### HAVERHILL URBAN DISTRICT COUNCIL.

ERECTION OF 17 GARAGES IN BLOCKS OF 12 AND 5.

TENDERS are invited for the ERECTION OF 17 GARAGES TOGETHER WITH ANCILLARY WORKS IN BLOCKS OF 12 AND 5 RESPECTIVELY at Paske-avenue and Fern-grove, Haverhill.

Specifications, Bills of Quantities and Forms of Tender may be obtained from, and plans inspected at, the office of the Engineer and Surveyor to the Council.

Tenders in sealed envelopes endorsed "Garages" must reach the undersigned by 23rd MAY.

The Council do not bind themselves to accept the lowest or any tender.

W. C. BLAKE,
Clerk of the Council.

Council Offices,
Haverhill,
Suffolk.
4th May, 1959.

### HUYTON WITH ROBY URBAN DISTRICT COUNCIL.

ASPHALT SURFACING—A.5080.

TENDERS are invited for SUPPLYING AND LAYING by machine approximately 3,000 sq. yards of two course HOT ROLLED ASPHALT on Tarbock-road, A.5080.

The Specification and Bill of Quantities may be obtained from the Engineer and Surveyor, Council Offices, Derby-road, Huyton.

Tenders must be addressed to the undersigned in plain sealed envelopes endorsed "Tender for Asphalt Surfacing" and must be delivered not later than 10 a.m on MONDAY, 1st JUNE, 1959.

The Council does not bind itself to accept the lowest or any Tender.

D. WILLGOOSE,
Clerk of the Council.

Council Offices,
Derby-road,
Huyton, Lancs.

### SOUTH WESTERN REGIONAL HOSPITAL BOARD.

STOKE PARK HOSPITAL, BRISTOL.

The Board propose to invite FIXED-PRICE TENDERS for carrying out the MODERNISATION of the NORTHERN PART OF THE ST. CATHERINE'S BLOCK. The works comprise considerable alterations, single-storey extensions, the installation of lift and engineering services, and complete redecoration.

The project has been planned by and will be carried out under the direction of Messrs. Day & Dakin, 9 Clare-street, Bristol.

Contractors possessing substantial resources who are willing to tender for this work are invited to submit their names.

From the names submitted a panel of contractors will be chosen who will be furnished with Bills of Quantities.

Contractor's applications should reach the undersigned not later than 25th MAY, 1959.

M. O. CARTER,
Secretary.

27 Tyndalls Park-road,
Bristol, 8.

### CATERHAM AND WARLINGHAM URBAN DISTRICT COUNCIL.

DEMOLITION OF SIX COTTAGES AND THE ERECTION OF THREE PAIRS OF HOUSES.

TENDERS are invited for the demolition of SIX COTTAGES and the ERECTION OF THREE PAIRS OF SEMI-DETACHED HOUSES at Sunnybank, Warlingham.

Specification, plans and Form of Tender may be obtained on application, from the Engineer and Surveyor, Council Offices, Caterham.

Tenders in the envelope provided must be delivered to the undersigned not later than 4 p.m. on 1st JUNE, 1959.

B. J. SMERDON,
Clerk of the Council.

Council Offices,
Caterham.

### COUNTY BOROUGH OF SOUTHAMPTON

invites TENDERS. ERECTION OF PRIMARY SCHOOL at Kane's Hill, Thornhill, Southampton. Forms and particulars (including Bill of Quantities) from Borough Architect on written application by 23rd MAY, 1959. R.I.B.A. Contract plus Supplementary Conditions available for inspection. Tender to Town Clerk, Civic Centre, Southampton by 10 a.m., 22nd JUNE, 1959.

### COUNTY BOROUGH OF IPSWICH.

CHANTRY ESTATE 3

FIXED PRICE TENDERS are invited for the ERECTION OF 80 SINGLE BEDROOM FLATS, comprising five blocks of four, six blocks of eight and one block of 12 flats.

Contractors wishing to Tender should send their names to the Borough Engineer and Surveyor, 19 Tower-street, Ipswich, not later than 21st May, together with cheque for £3 3s. 0d. which will be refunded on receipt of bona fide Tender.

Bills of Quantities will be forwarded on 2nd June and closing date will be 30th JUNE.

A Guarantee Bond will be required for the due performance of the Contract.

J. C. NELSON,
Town Clerk.

Town Hall,
Ipswich.
4th May, 1959.

### COUNTY BOROUGH OF MERTHYR TYDFIL.

GURNOS NEIGHBOURHOOD UNIT.

(1) CONTRACT FOR ADVANCE PREPARATION OF HOUSING SITE.
(2) CONTRACT FOR ERECTION OF 299 HOUSES.

Contractors are invited to submit TENDERS for either or both of the above contracts and should submit a written notification of their desire to Tender to the office of the Engineer and Surveyor, Town Hall, Merthyr Tydfil, by SATURDAY, 16th MAY, 1959. A deposit of 5 guineas must be enclosed in respect of each contract and cheques must be made payable to the County Borough of Merthyr Tydfil. The deposits in each case will be returned on receipt of a bona fide Tender which is not subsequently withdrawn.

Documents and particulars of contract will be forwarded to applicants within the week following the above date. Enquiries in connection with these contracts will be dealt with at the above address during normal office hours.

The Council do not bind themselves to accept the lowest or any Tender submitted.

T. S. EVANS,
Town Clerk.

Town Hall,
Merthyr Tydfil.
28th April, 1959.

### COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

TENDERS are invited for the CONSTRUCTION OF A PLAYGROUND ON AN EXISTING FIELD WITH TARMACADAM AND COLD ASPHALT FINISH at Baildon C.E. Aided School.

Plans and Specification are now available for inspection at the Office of the Divisional Architect, Salisbury Buildings, Albert-street, Harrogate.

Applications to tender must be addressed to the Divisional Architect and received not later than the 1st JUNE, 1959; the relevant documents will be despatched that day.

The Contract will be under the provisions of the R.I.B.A. Conditions and Form of Agreement where Bills of Quantities do not form part of the Contract.

Sealed Tenders must be addressed to me, the undersigned, and received at Room 3, County Hall, Wakefield, not later than 12 noon on the 15th JUNE, 1959.

BERNARD KENYON,
Clerk of the County Council.

### CANNOCK URBAN DISTRICT COUNCIL.

ERECTION OF 244 TRADITIONAL DWELLINGS.

TENDERS are invited for the ERECTION OF 244 DWELLINGS on the further extension of Pye Green-road Housing Site No. 53, R.I.B.A. no-quantities Form, fixed price.

Interested Building Contractors should apply for documents not later than 21st May, 1959 by sending deposit of four guineas to the Council's Architect, Mr. H. Wilcox, A.R.I.B.A., High Green, Cannock, Staffs.

The Council do not bind themselves to accept the lowest or any Tender.

Tenders in sealed envelopes endorsed "Tender for Dwellings" but bearing no mark to indicate the sender, must be received by the undersigned not later than 10 a.m. on MONDAY, 22nd JUNE, 1959.

H. C. ALLEN,
Clerk of the Council.

Council House,
High Green,
Cannock,
Staffs.
6th May, 1959.

## BOROUGH OF SUTTON AND CHEAM.

BUILDING WORKS.
RECREATION GROUNDS

The Council invites FIRM PRICE TENDERS from Building Firms for carrying out the following works:—

(a) INTERNAL ALTERATIONS to the main Pavilions at Cuddington and Sutton Common Recreation Grounds to incorporate new showers, and toilets together with a small extension to the buildings forming a new Gents W.C. complete with all plumbing and drainage work.

(b) CONSTRUCTING A NEW BRICK LEAN-TO BUILDING approximately 33 ft. 0 in. x 10 ft. 0 in. on the side of the Cuddington Recreation Ground Pavilion to incorporate a Mess Room, Lime Store and Tool Store complete with all plumbing and drainage work.

(c) CONSTRUCTING A NEW BRICK STORAGE BUILDING at the Cuddington Recreation Ground Bowling Green site incorporating a Soil Mixing Shed and Tool Store, and other miscellaneous building works.

Specifications, Drawings and Form of Tender may be obtained on application from Mr. N. H. Michell, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Municipal Offices, High-street, Sutton, Surrey, on payment of £1 1s. 0d. which will be returned on receipt of a bona fide Tender. Cheques should be crossed and made payable to the Sutton and Cheam Borough Council.

Tenders on the prescribed form, in the envelope provided, bearing no indication of the name of the sender endorsed with the title on the Drawing must be delivered at the Office of the undersigned not later than 12 NOON on FRIDAY, 5th JUNE, 1959.

The Council does not bind itself to accept the lowest or any Tender.

A. PRIESTLEY,
Town Clerk.

Municipal Offices,
Sutton,
Surrey.
May, 1959.

## CITY OF CARDIFF.

CITY ARCHITECT'S DEPARTMENT.

TENDERS FOR THE ERECTION OF 61 DWELLINGS AT LLANRUMNEY, GABALFA, LLANISHEN AND ELY.

FIXED PRICE TENDERS are invited for the ERECTION OF A TOTAL OF 61 DWELLINGS in four Contracts as follows:—

Group 1.—Ten SINGLE-BEDROOM FLATS in two-storey block at Macauley-avenue, Llanrumney.

Group 2.—Thirty-five DWELLINGS, comprising 14 single-bedroom flats in one two-storey block, five three bedroom terraced houses, 14 semi-detached three bedroom houses and two two-bedroom houses at Clarbeston-road and College-road, Gabalfa.

Group 3.—Fourteen AGED PERSONS' BUNGALOWS at Newborough-avenue, Llanishen.

Group 4.—Two SEMI-DETACHED TWO-BEDROOM HOUSES at Grand-avenue, Ely.

Drawings, Specification and Conditions of Contract may be inspected at the City Architect's Department, 12 Park-place, Cardiff.

Specification, Bills of Quantities and Forms of Tender may be obtained from the City Architect upon payment of a deposit of £2 2s. 0d. (in respect of each contract), which will be refunded upon receipt of a bona fide Tender or the return of all documents before the closing date for receipt of Tenders.

Contractors may Tender for one or more contracts, but each contract must be Tendered for separately.

Tenders will not be considered unless enclosed in the envelope provided and endorsed "Tender for the erection of . . . dwellings at . . ." as the case may be, addressed to the undersigned at the City Hall, Cardiff and sent by Registered Post so as to be received not later than the 10th JUNE, 1959.

The envelope must not bear the name of or any mark indicating the identity of the Tenderer.

Completed Bills of Quantities are not to be submitted with the Tender but must be sent, completed in ink, so as to be in the hands of the City Architect, within three days after written request following the opening of Tenders.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
May, 1959.

## CITY OF CAMBRIDGE.

EAST-ROAD REDEVELOPMENT.

ERECTION OF 60 MAISONETTES AND 13 TERRACE HOUSES.

TENDERS are invited for the ERECTION OF 60 MAISONETTES in blocks of 16 and 14, and of 13 terrace houses in blocks of eight and five, in the first stage of the above redevelopment. Applications for Tender documents, accompanied by a deposit of £2 2s. 0d. to be made to the City Surveyor not later than WEDNESDAY, 20th MAY, 1959. Completed Tenders must be returned by 3 p.m. on Thursday, 25th June.

The Council does not bind itself to accept the lowest or any Tender.

ALAN H. I. SWIFT,
Town Clerk.

The Guildhall,
Cambridge.
May, 1959.

## CITY OF MANCHESTER.

HOUSING COMMITTEE.

TENDERS invited (returnable noon, 27th MAY, 1959) for the following:—

Contract 315. ERECTION 11 DWELLINGS, Arlington-street, Crumpsall.

Contract 318. ERECTION 14 DWELLINGS, Barcicroft-road, Burnage.

Documents available from the Director of Housing, Town Hall, Manchester, 2.

## SOUTH WESTERN REGIONAL HOSPITAL BOARD.

SOUTHMEAD HOSPITAL, BRISTOL.

The Board proposes to invite FIXED-PRICE TENDERS for the ERECTION of a CANTEEN AND KITCHEN of brick construction with car park, road, ducts and sewers.

The project has been planned by and will be carried out under the direction of Messrs. Day & Dakin, 9 Clare-street, Bristol.

Contractors willing to tender for this work are invited to submit their names.

From the names submitted a panel of contractors will be chosen who will be furnished with Bills of Quantities.

Contractors' applications should reach the undersigned not later than the 25th MAY, 1959.

M. O. CARTER,
Secretary.

27, Tyndalls Park-road,
Bristol, 8.

## DURHAM COUNTY COUNCIL.

TENDERS invited:—

Consett Technical College, Medomsley Edge Premises. ALTERATIONS AND ADAPTATIONS.

Newton Hall Estate, Framwellgate Moor. ERECTION OF FOUR PAIRS SEMI-DETACHED STANDARD POLICE HOUSES.

Wellfield Road, Murton. ERECTION OF ONE PAIR SEMI-DETACHED STANDARD POLICE HOUSES.

Application for further details to County Architect, South-street, Durham, not later than 27th MAY, 1959.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

## COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.

SWANSEA TECHNICAL COLLEGE. NEW CHEMISTRY, PHYSICS AND METALLURGY BLOCK.

ELECTRICAL INSTALLATION.

Firms wishing to TENDER for the Electrical Installation at the above College are invited to submit their application to the Borough Architect, Guildhall, Swansea, on or before FRIDAY, 29th MAY, 1959.

Plans, Specification and Conditions of Contract can be obtained on application and deposit of five pounds. The documents will be sent only to those applicants who have had the necessary experience to carry out work of this nature and magnitude and the applicants are advised that they should give evidence of having previously carried out work of a similar character.

The deposit will be refunded after delivery of a bona fide tender (not subsequently withdrawn) and the return of all documents.

No guarantee is given that the lowest or any other Tender will be accepted.

T. B. BOWEN,
Town Clerk.

Guildhall,
Swansea.
5th May, 1959.

## COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.

SWANSEA TECHNICAL COLLEGE. NEW CHEMISTRY, PHYSICS AND METALLURGY BLOCK.

HEATING, HOT AND COLD WATER, GAS AND ENGINEERING SERVICES.

Firms wishing to TENDER for the Heating, Hot and Cold Water, Gas and Engineering Services at the above College are invited to submit their application to the Borough Architect, Guildhall, Swansea, on or before FRIDAY, 29th MAY, 1959.

Plans, Specification and Conditions of Contract can be obtained on application and deposit of FIVE POUNDS. The documents will be sent only to those applicants who have had the necessary experience to carry out work of this nature and magnitude and the applicants are advised that they should give evidence of having previously carried out work of a similar character.

The deposit will be refunded after delivery of a bona fide tender (not subsequently withdrawn) and the return of all documents.

No guarantee is given that the lowest or any other Tender will be accepted.

T. B. BOWEN,
Town Clerk.

Guildhall,
Swansea.
5th May, 1959.

## CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

CONTRACT 670.
24 HOUSES AND 31 LOCK-UP GARAGES.

KITSLAND-ROAD,
BERROWSIDE-ROAD,
SHARD END.

The House Building Committee invite FIRM-PRICE TENDERS for the ERECTION of the above.

Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 20th MAY, 1959. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's office during normal working hours.

The deposit will be returned on receipt of a bona fide tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, NOT LATER THAN 12 noon on MONDAY, the 22nd JUNE, 1959. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any tender.

J. F. GREGG,
Town Clerk.

The Council House,
Birmingham, 1.

## COUNTY COUNCIL OF ESSEX.

(1) Chelmsford Rainsford County Secondary School. COMPLETE INTERNAL REDECORATIONS.

(2) Maldon County Primary School. EXTERNAL AND INTERNAL REDECORATIONS.

Contractors wishing to submit FIRM-PRICE TENDERS for the above, estimated to cost (1) £7,400, and (2) £2,050, should forward their names, from which panels will be chosen and provided with specifications.

The work entailed can partially be done in term time as well as during the Summer Holiday period, Christmas and Easter recesses.

Applications should reach the undersigned not later than 23rd MAY, 1959.

H. CONNOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

## SOMERSET COUNTY COUNCIL.

EDUCATION COMMITTEE.

Applications are invited from Building Contractors wishing to submit a FIXED-PRICE TENDER for the ERECTION of:—

KEYNSHAM GRAMMAR SCHOOL
(Phase II)—(180 Places).

Applications should be submitted to the undersigned not later than MONDAY, 25th MAY, 1959, and should contain an assurance that the applicant has the necessary financial and material resources and organisation to undertake the work.

The Committee reserves the right to select from the applicants a list of firms who will be invited to submit tenders, and does not bind itself to accept the lowest or any tender.

A deposit of £2 2s. will be required from those firms selected which will be returned upon receipt of a bona fide tender or the return of the Bill of Quantities.

No tender will be considered unless submitted in the endorsed envelope which will be provided.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

Park-street,
Taunton.

## COUNTY BOROUGH OF BRIGHTON.

EDUCATION COMMITTEE.

FIXED PRICE TENDERS are invited for the following work:—

1. Downs Junior School: ADAPTATIONS TO SANITARY ACCOMMODATION.
2. Elm Grove Infants' School: NEW SANITARY ACCOMMODATION.
3. Stanmer School: EXTENSION TO DINING ROOM.
4. Varndean Holt: ADAPTATIONS.

Bills of Quantities and Form of Tender may be obtained from the Borough Surveyor, Engineer and Planning Officer, 26-30 King's-road, Brighton, on or after 25th May, 1959, on receipt of a returnable deposit of £2 2s. 0d. for each contract. Drawings may be inspected upon application to the Borough Surveyor's Office. Tenders are to be delivered in the plain sealed envelope provided, not bearing any name or mark indicating the sender, to the Town Clerk not later than noon on WEDNESDAY, 10th JUNE, 1959.

W. O. DODD,
Town Clerk.

Town Hall,
Brighton, 1.

## ESHER URBAN DISTRICT COUNCIL.

ERECTION OF 14 OLD PERSONS' DWELLINGS AT FREELANDS-ROAD, COBHAM, SURREY.

CONTRACT 264.

TENDERS are invited for the above contract which comprises:—

1 DETACHED ONE-BEDROOM BUNGALOW;

1 BLOCK CONTAINING 12 BED/SITTING ROOMS, A "HOUSE MOTHER'S" FLAT, A COMMON ROOM AND ANCILLARY ACCOMMODATION.

Form of tender, drawings, bill of quantities for work below damp course level and specification for all the works may be obtained from the Engineer and Surveyor, Council Offices, Esher, on payment of a deposit of £2 2s. 0d. which will be refunded on receipt of a bona fide tender together with the return of all documents in good condition.

Tenders on the prescribed form, enclosed in the envelope provided, endorsed "Contract No. 264" and bearing no name or mark indicating the sender, must be addressed to and received by the undersigned not later than 5 p.m. on FRIDAY, 29th MAY, 1959.

FREDERICK EDWARDS,
Clerk of the Council.

Council Offices,
Esher,
Surrey.

## HOLYWELL URBAN DISTRICT COUNCIL.

PROPOSED 44 HOUSES AND BUNGALOWS, GREENFIELD HALL ESTATE.

FIXED-PRICE TENDERS are invited from competent Contractors for the above. The work consists of the ERECTION of No. 32 HOUSES and No. 12 BUNGALOWS complete with paths, fences, drains and water mains.

Copies of the Bills of Quantities may be obtained upon application to the Engineer and Surveyor, Mr. F. E. G. Gray, F.R.I.C.S., at the undermentioned address upon payment of a deposit of £2, which will be refunded on receipt of a bona fide tender not subsequently withdrawn.

Working drawings may be inspected at the office of the Engineer and Surveyor or at the office of the Quantity Surveyor, Mr. A. W. West, F.R.I.C.S., Westminster Bank Chambers, Wrexham, during usual office hours.

Tenders in endorsed envelopes provided and addressed to the undersigned, must be received by Noon on MONDAY, 1st JUNE, 1959.

The Council do not bind themselves to accept the lowest or any tender.

J. KERFOOT ROBERTS,
Clerk to the Council.

Town Hall,
Holywell,
Flintshire.

## BEDFORDSHIRE EDUCATION COMMITTEE.

Builders and Contractors who wish to be considered to TENDER for any of the undermentioned Fixed Price Contracts should submit their names to the County Architect, Shire Hall, Bedford, by 22nd MAY, 1959.

(a) Bedford, 15-17 Lansdowne-road. ALTERATIONS AND IMPROVEMENTS to provide hostel accommodation for College students.

(b) Southill County Primary School. ALTERATIONS AND EXTENSIONS to provide a school meals kitchen.

Drawings and specifications for each scheme will be issued to the Contractors selected to tender.

The Committee does not bind itself to accept the lowest or any tender.

## CITY OF BIRMINGHAM.

TO BUILDING CONTRACTORS.

The Catering Committee invite FIRM-PRICE TENDERS for STRUCTURAL ALTERATIONS AND EXTENSIONS (during occupation) at Vittoria Restaurant, Frederick-street.

Bills of Quantities will be forwarded on payment of £2 2s. at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham 1, to whom all cheques should be made payable. Applications should be made by 22nd MAY, 1959. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's office during normal working hours.

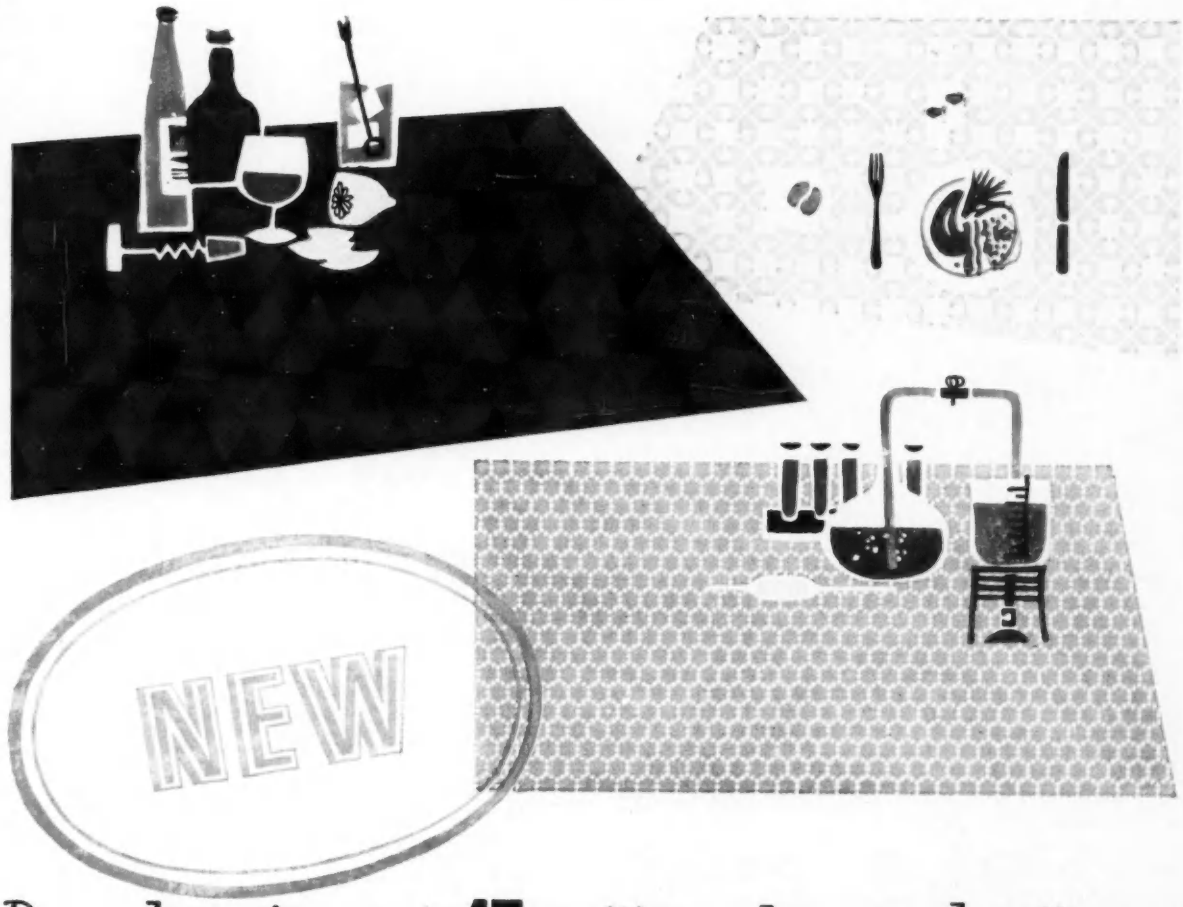
The deposit will be returned on receipt of a bona fide tender or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.37), Council House, Birmingham, 1, NOT LATER THAN 12 noon on MONDAY, the 22nd JUNE, 1959. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any tender.

J. F. GREGG,
Town Clerk.

The Council House,
Birmingham, 1.




# Decorplast gives you **47** exciting colours and patterns

New Decorplast makes working-surfaces and walls really *glow* with colour—sets a new standard in top-class melamine-faced laminated plastics. It's as tough as it's beautiful. Doesn't easily crack, chip, stain or fade. It's cleaned with a damp cloth—because dirt cannot stick. Boiling water, grease, spirits, dilute acids and heat up to 310 F leave new Decorplast bright and colourful as the day it was made.

The whole new range, now in sheets 9′ x 4′ as well as 8′ x 4′, thickness $\frac{1}{16}$″, is *always available* in matt and gloss finishes—plus new wood veneers that really do look like wood! Write to the address below and ask for facsimile Colour Chart and list of Distributors.

**Decorplast** LAMINATED PLASTIC

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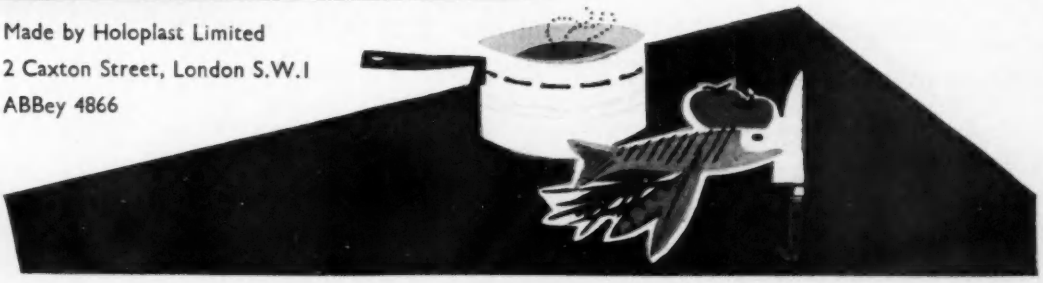

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1/8" 3/16" 1/4" 5/16" 3/8" 7/16" & 1/2"

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THOMAS SIMSON & COMPANY LIMITED

6 GREAT WINCHESTER STREET, LONDON, E.C.2.

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THE AFRICAN BUILDING BOARD CORPORATION LIMITED

STOCKED BY ALL LEADING TIMBER AND BUILDERS' MERCHANTS

## BOROUGH OF BRENTFORD AND CHISWICK.

INTERNAL AND EXTERNAL REDECORATIONS.

STAVELEY-ROAD BOYS' SCHOOL, STAVELEY-ROAD, CHISWICK.

TENDERS are invited for the above work to be completed during the School holidays, commencing 28th JULY and ending 4th SEPTEMBER, 1959.

Form of Tender and Specification may be obtained from the Borough Engineer and Surveyor.

Tenders must be submitted not later than 9 a.m., FRIDAY, 12th JUNE, 1959, in the envelope provided.

W. F. J. CHURCH,
Town Clerk.

Town Hall,
Chiswick, W.4.

## CITY OF CAMBRIDGE.

ERECTION OF 29 OLD PEOPLE'S FLATLETS.

CHRISTCHURCH-STREET.

TENDERS are to be invited for DEMOLITION WORKS and the ERECTION of 29 OLD PEOPLE'S FLATLETS in one two-storey block, together with Warden's accommodation and Common Room.

Applications, accompanied by a deposit of three guineas, should be made to the City Surveyor, Guildhall, Cambridge, not later than 27th MAY.

Tender documents will be despatched on the 1st JUNE and are to be returned by 3 p.m. on the 30th JUNE.

The Council does not bind itself to accept the lowest or any tender.

ALAN H. I. SWIFT,
Town Clerk.

The Guildhall,
Cambridge.
May, 1959.

## BOROUGH OF BANBURY.

ONE HUNDRED AND FORTY HOUSES.

NEITHROP ESTATE SECTION III.

The Council invite tenders for the CONSTRUCTION of ONE HUNDRED AND FORTY HOUSES in three schemes, as set out hereunder:—

Scheme 41A—Forty-four houses.
Scheme 41B—Forty-six houses.
Scheme 41C—Fifty houses.

All houses have three bedrooms. Contractors may tender for any one scheme, or any combination of schemes.

Commencing dates will be as follows:—

Scheme 41A—JULY, 1959.
Scheme 41B—NOVEMBER, 1959.
Scheme 41C—DECEMBER, 1959.

Plans may be inspected and Tender Documents obtained upon written application to the Borough Engineer and Surveyor, Municipal Buildings, Marlborough road, Banbury, on and after SATURDAY, the 16th MAY, 1959, and on payment of a deposit of £2 2s., which will be refunded upon receipt of a bona fide tender for the works or the return of all documents supplied.

Tenders must be delivered to the undersigned not later than 12 noon on MONDAY, the 15th JUNE, 1959, in the endorsed envelope provided, which must not bear any name or mark indicating the sender.

Contractors' attention is drawn to the fact that the Contract/s will be carried out on a Fixed Price basis, and Clause 25A of the R.I.B.A. Form of Contract will not apply.

The Council do not bind themselves to accept the lowest or any tender.

F. G. E. BOYS,
Town Clerk.

Municipal Buildings,
Marlborough-road,
Banbury.
14th May, 1959.

## BOROUGH OF ALDERSHOT.

TO BUILDING CONTRACTORS.

HERON WOOD ESTATE:
84 DWELLINGS.

TENDERS are invited for "Homeville" type traditional dwellings as follows:—

32 No. THREE - BEDROOM HOUSES.
48 No. ONE-BEDROOM FLATS.
4 No. ONE-BEDROOM BUNGALOWS.

Documents may be obtained from the Borough Engineer and Surveyor, Town Hall, Aldershot, on payment of £2 2s. deposit, which will be refunded upon receipt of a bona fide tender. Drawings and Conditions of Contract may be inspected at his office during normal office hours.

Tenders to reach me not later than 10 a.m. on MONDAY, 15th JUNE, 1959.

H. B. SALES,
Town Clerk.

Town Hall,
Aldershot.
11th May, 1959.

## COUNTY BOROUGH OF WALSALL.

HOUSING COMMITTEE.

ERECTION OF 10 HOUSES, Heather-road.
ERECTION OF 20 HOUSES, Ripon-road.
ERECTION OF 24 HOUSES, Mossley Estate, Contract 29.
ERECTION OF 28 BUNGALOWS, Mossley Estate, Contract 28.
ERECTION OF 9 BUNGALOWS, Blakenall-lane.

Separate TENDERS are invited for the ERECTION of the dwellings to one or all of the above five contracts.

Bills of Quantities and Forms of Tender can be obtained from the undersigned upon payment of a deposit of £2 2s. 0d. which will be refunded upon receipt of a bona fide tender.

Tenders must be sent in a sealed envelope addressed to the Town Clerk, Council House, Walsall, bearing the name of the contract and the number of dwellings, so as to be received not later than mid-day on MONDAY, 8th JUNE, 1959.

Any tender received after the time stated or otherwise than in an envelope endorsed as required, may be rejected.

An envelope suitably addressed and endorsed will be supplied with the Form of Tender or on request and it is desired that this envelope be used.

The Council do not bind themselves to accept the lowest or any tender.

M. E. HABERSHON,
Borough Engineer and Surveyor.

Council House,
Walsall.
11th May, 1959.

## CITY OF ST. ALBANS.

EXTERNAL PAINTING OF COUNCIL HOUSES.

TENDERS are invited for the EXTERNAL PAINTING of 659 Houses, 56 FLATS, 8 OLD FOLK'S BUNGALOWS and 25 GARAGES.

Specification and Form of Tender may be obtained from the office of the City Engineer and Surveyor, 16 St. Peter's-street, St. Albans, on the payment of a deposit of two guineas which will be refunded upon the receipt of a bona fide tender not subsequently withdrawn.

The Form of Tender must be returned not later than noon on 30th MAY, 1959, to the undersigned.

The Corporation do not bind themselves to accept the lowest or any tender.

W. B. MURGATROYD,
Town Clerk.

38 St. Peter's-street,
St. Albans.
Herts.

## CHESTERFIELD RURAL DISTRICT COUNCIL

invite TENDERS for the completion of the following schemes:—

(A) 10 HOUSES at Birkinstyle-lane, Stonebroom.

(B) FOUR HOUSES at Manor-road, Brimington.

Plans may be seen and Bills of Quantities obtained from the office of the Council's Engineer and Surveyor, Rural Council House, Saltergate, Chesterfield, on payment of a deposit of Two Guineas by cheque for each scheme, refundable on receipt of a bona fide Tender not subsequently withdrawn.

Tenders on the prescribed form, and in the separately endorsed envelopes provided, and bearing no mark or indication of the sender, must be returned to the undersigned by not later than 10 a.m. on THURSDAY, 4th JUNE, 1959, when they will be opened. Tenders received after that time will be rejected.

Priced Bills of Quantities must also be returned in the envelope provided. These will be returned unopened to the unsuccessful Tenderers.

H. O. HAWKINS,
Clerk to the Council.

## HOLYWELL URBAN DISTRICT COUNCIL.

PROPOSED ROADS, SEWERS AND WATER MAINS, STAGE II.

FIXED-PRICE TENDERS are invited from competent Contractors for the above. The works include the CONSTRUCTION of CARRIAGEWAY and FOOTPATHS, street lighting, surface water and soil sewers and manholes and water mains.

The total length of the roads are approximately 280 yards.

Copies of the Bills of Quantities may be obtained upon application to the Engineer and Surveyor, Mr. F. E. G. Gray, F.R.I.C.S., at the undermentioned address upon payment of a deposit of £2, which will be refunded on receipt of a bona fide tender not subsequently withdrawn, and the return of all documents.

Working drawings may be inspected at the office of the Engineer and Surveyor during usual office hours.

Tenders in endorsed envelopes provided and addressed to the undersigned, must be received by Noon on MONDAY, 1st JUNE, 1959.

The Council do not bind themselves to accept the lowest or any tender.

J. KERFOOT ROBERTS,
Clerk to the Council.

Town Hall,
Holywell,
Flintshire.

## NEWTON - LE - WILLOWS URBAN DISTRICT COUNCIL.

FIXED PRICE TENDERS are invited for the ERECTION OF 42 BUNGALOWS on the Heald Farm Estate.

Specifications and Bills of Quantities will be available after 13th May, 1959, and may be obtained from W. S. Roscoe, M.I.Mun.E., Engineer and Surveyor, Market Chambers, Market-street, Newton-le-Willows, upon payment of a deposit of £2 2s. 0d., payable to Newton-le-Willows U.D.C.

The deposit will be returned on receipt of a bona fide Tender (not subsequently withdrawn), and the return of all documents supplied.

Plans may be inspected at the office of the Engineer and Surveyor.

Tenders in plain sealed envelopes endorsed "Tender—42 Bungalows" to be received by the undersigned not later than NOON on MONDAY, 1st JUNE, 1959.

The Council do not bind themselves to accept the lowest or any Tender.

J. ROBERTS,
Clerk of the Council.

Town Hall,
Market-street,
Newton-le-Willows,
Lancashire.

## BOROUGH OF HESTON AND ISLEWORTH.

PROVISION OF NEW KITCHEN, STORES AND CLOAKROOM ACCOMMODATION, CHATSWORTH JUNIOR SCHOOL.

TENDERS are invited for the above works. Firms wishing to Tender should apply to the Borough Engineer and Surveyor, 88 Lampton-road, Hounslow.

Tenders, in plain sealed envelopes endorsed "Tender — Chatsworth Junior School," but not indicating the sender, must be received by me by 10 a.m. on MONDAY, 8th JUNE, 1959.

The Council are not bound to accept any Tender.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow,
Middlesex.

## BOROUGH OF TWICKENHAM.

EXTERNAL PAINTING OF CORPORATION HOUSES.

TENDERS are invited for the EXTERNAL PAINTING of 96 B.I.S.F. houses on the Butts Farm Estate. General Conditions and Specification may be obtained on payment of a deposit of £2 2s. 0d. to the Borough Engineer and Surveyor, Municipal Offices, Twickenham. Telephone Number POPesgrove 4466, Extension 139. Tenders must be enclosed in the official envelope bearing no mark indicative of sender and received by me not later than 10 a.m. on MONDAY, the 25th MAY, 1959. The Corporation do not bind themselves to accept the lowest or any Tender.

W. H. JONES,
Town Clerk.

Municipal Offices,
Twickenham,
Middlesex.

## ELECTRICITY BOARD FOR NORTHERN IRELAND.

COOLKEERAGH POWER STATION.

TENDERS are invited for the SUPPLY AND LAYING OF THERMAL INSULATION ON THE ROOFS OF CERTAIN ANCILLARY BUILDINGS at Coolkeeragh Power Station, Londonderry. The insulating material will be applied to concrete roof slabs, as an underlay for asphalt.

The Contractor appointed will be required to act as nominated sub-contractor to the general building Contractor.

Technical information and Tender Documents in quadruplicate may be obtained from the Board's Consulting Engineers, Messrs. Kennedy & Donkin, 64 Royal Exchange, Manchester 2. A deposit of three guineas will be required before Tender documents are issued, and this deposit will be refunded on receipt of a bona fide Tender. Cheques should be payable to the Electricity Board for Northern Ireland.

Three copies of the completed Tender must be delivered to the undersigned, by 12 o'clock NOON on 4th JUNE, 1959, in a sealed envelope marked "Contract NI.1355 Tender for Roof Insulation."

The Board do not bind themselves to accept the lowest or any Tender.

ALAN H. PARR,
Secretary.

P.O. Box No. 2,
120 Malone-road,
Belfast.

## CITY OF MANCHESTER.

The Transport Committee invite TENDERS for

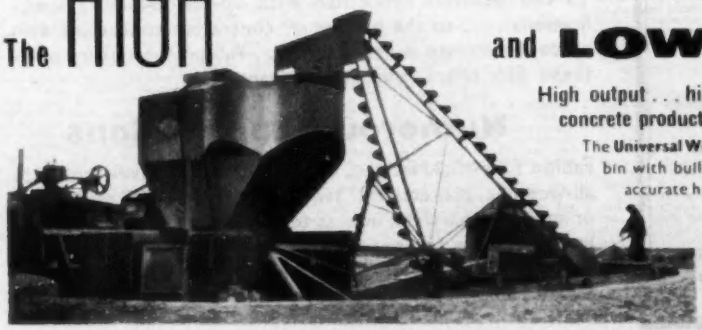
(a) LEAD CLOTHED STEEL GLAZING BARS, or alternatively, ALUMINIUM ALLOY BARS.
(b) SHEET LEAD.

Forms of Tender, etc., obtainable from the General Manager, Corporation Transport Department, 55 Piccadilly, Manchester 1.

Tenders returnable by 10 a.m. on the 26th MAY, 1959.


The HIGH BETTER PROPORTIONED AND CHEAPER CONCRETE BLAWKNOX

and LOW of concrete production



High output . . . high quality concrete . . . low capital cost . . . low cost concrete production.

The **Universal Weighbatcher** is completely self-contained, comprising aggregate bin with built-in loader, bulk cement storage and handling equipment, and accurate hydraulic weigher. Output up to 300 cubic yards per 10-hour day.

*Write for publication 201*

**BLAW KNOX LTD**

Box 113 90/94 Brompton Road, London, SW3

Telephone Kensington 5151

(1) Fablon film as a concrete curer. Up to 95% of moisture is retained in the concrete.

**for up-to-the minute building**

(2) Fablon film in use as temporary glazing. Its transparency allows full transmission of light to the job.

**Fablon** REGD.

# POLYTHENE FILM

## formulated for the building industry

To the architect concerned with up-to-the-minute specifications . . . to the builder or contractor concerned with up-to-the-minute construction . . . Fablon top-quality polythene film offers substantial advantages.

## Numerous Applications

Fablon film—lightweight, tough and inexpensive—provides all-weather protection ; serves as waterproof membrane or moisture barrier ; acts as temporary glazing and screening ; improves the curing of concrete. These and other applications of Fablon, are all fully described in the illustrated Fablon booklet, which will be sent *free* on request.

**To: Fablon Ltd., Dept. B, 49 Park Lane, London, W.1**

*Please send me illustrated booklet "Fablon Polythene film in Building Construction".*

NAME .....

ADDRESS .....

.....

**Fablon Ltd., member of the C.P. Group—one of the world's major producers of plastics sheet and film**

## BOROUGH OF HORNSEY.

TENDERS are invited from heating contractors for the INSTALLATION OF AN OIL FIRED LOW PRESSURE HOT WATER HEATING SYSTEM at No. 6 North-hill, N.6.

Particulars from the Borough Engineer and Surveyor, Town Hall, Hornsey, N.8. Tenders to be received by NOON, FRIDAY, the 5th JUNE, 1959.

H. BEDALE,
Town Clerk.

Town Hall,
Hornsey, N.8.

## BOROUGH OF FOLKESTONE.

ERECTION OF BRANCH LIBRARY, WOOD-AVENUE.

Contractors desirous of TENDERING for the above should register their names with the Borough Engineer, 2-10 West-terrace, Folkestone, and enclose therewith a deposit of £2 2s. 0d. not later than 22nd MAY, 1959.

The Library is to consist of a single storey building, approximately 4,025 feet super, to be built of brick with flat roof construction and to be complete with electric underfloor warming system, built-in timber book shelving, counters and fitments.

N. G. SCRAGG,
Town Clerk.

Town Clerk's Office,
Folkestone.
4th May, 1959.

## BOROUGH OF YEOVIL.

ERECTION OF SIX HOUSES, SUNNINGDALE ESTATE.

Applications are invited from experienced builders who wish to submit a tender for the above mentioned proposal.

Applications must be submitted to the undersigned not later than WEDNESDAY, 27th MAY, 1959, giving the names of Local Authorities for whom similar work has been carried out.

Applicants invited to tender will receive the necessary documents and be notified of the last date for receipt of tenders.

A. HEAL, M.I.Mun.E.,
Borough Surveyor.

Municipal Offices,
Yeovil.

## ELECTRICITY BOARD FOR NORTHERN IRELAND.

COOLKEERAGH POWER STATION.

TENDERS are invited for the SUPPLY, DELIVERY AND ERECTION OF PURPOSE-MADE STEEL HAND-RAILING, at Coolkeeragh Power Station, Londonderry. Part of the handrailing will have a plastic-covered top rail.

The Contractor appointed will be required to act as nominated sub-contractor to the general building contractor.

Tender Documents in quadruplicate may be obtained from the Board's Consulting Engineers, Messrs. Kennedy & Donkin, 64 Royal Exchange, Manchester 2.

Three copies of the completed tender must be delivered to the undersigned by 12 o'clock noon on 4th JUNE, 1959, in a sealed envelope marked "Contract NI.1305. Tender for Handrailing."

The Board do not bind themselves to accept the lowest or any tender.

ALAN H. PARR,
Secretary.

P.O. Box No. 2,
120 Malone-road,
Belfast.

# PUBLIC APPOINTMENTS

## CLERK OF WORKS

Required by Chelsea Borough Council for Housing Scheme including 11-storey block. Construction starting July, 1959. Contract approximately two years. Salary 18 guineas per week. Experience in tall buildings and housing essential. Application by 22nd MAY, 1959, on form to be obtained from Borough Engineer and Surveyor, Town Hall, King's-road, S.W.3.

## CITY OF WINCHESTER.

Applications are invited for the post of ARCHITECTURAL ASSISTANT in the City Engineer's Office (C. C. Steptoe, A.R.I.B.A., Chief Assistant Architect). It is essential that the applicant should be a neat and accurate draughtsman and have had previous experience in an architect's office. Salary, according to experience, will be within Grade I of the National Scales, and the appointment is subject to the Local Government Superannuation Act.

Applications, stating age and details of experience, together with the names and addresses of two referees, should be addressed to the City Engineer, Guildhall, Winchester, and should reach his office not later than MONDAY, 1st JUNE, 1959.

Canvassing, either directly or indirectly will disqualify.

R. H. McCALL,
Town Clerk.

Guildhall,
Winchester,
10th April, 1959.

## URBAN DISTRICT COUNCIL OF BRAINTREE AND BOCKING.

BUILDING INSPECTOR.

Applications are invited for the above APPOINTMENT, salary within Grade A.P.T. I of the National Scales—(£.10-£765).

Applicants should have experience of all branches of the building trade and preference will be given to candidates who are fully experienced in the examination of plans in connection with Building Bye-laws and Town Planning Regulations and who hold the Building Inspector's Certificate of the Institution of Municipal Engineers or the Royal Institute of British Architects.

The appointment is subject to the National Conditions of Service and the Local Government Superannuation Act, 1937. The appointment will be terminable by one month's notice on either side and the successful candidate will be required to pass a medical examination.

Applications suitably endorsed, stating age, experience and qualifications, together with the names of two referees to be delivered to the undersigned not later than 12 NOON on MONDAY, 1st JUNE, 1959.

Canvassing directly or indirectly will be deemed a disqualification and Candidates should state in their application whether they are related to any Member or Senior Officer of the Council.

Housing accommodation will be made available if required.

H. COOK,
Engineer and Surveyor.

Town Hall,
Braintree.
11th May, 1959.

## CITY OF OXFORD.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

SENIOR ADMINISTRATIVE ASSISTANT.

Suitably qualified man required for the above post. Salary A.P.T. Grade III (£880-£1,065 per annum). The person appointed will be required, primarily, to act as Personal Assistant to the City Architect and Planning Officer and assist in the administrative work connected with the Council's heavy programme of new major capital projects. Experience of Local Government administration and Committee procedure desirable; ability to write shorthand an advantage.

Further particulars and application form from the City Architect and Planning Officer, Town Hall, Oxford. Closing date for receipt of applications, 6th JUNE, 1959.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

## SOUTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

Applications are invited for the following appointments on the permanent staff of the Board's Regional Architect, generally in accordance with Whitley Council conditions of service.

(a) ASSISTANT SURVEYOR or
(b) SURVEYING ASSISTANT.

Applicants for post (a) must be corporate members of the Royal Institution of Chartered Surveyors with sound practical experience of the surveying of land and buildings and familiarity with matters relating to the Town and Country Planning Acts and Building Bye-laws, and (b) Surveyors with suitable experience having passed the Intermediate Examination of the Royal Institution of Chartered Surveyors.

The commencing salary for post (a) will be within the scale £730 x £25(2) x £30(2) x £35(5) x £40(1)-£1,055 plus London Weighting Allowance of up to £50 p.a. and for post (b) will be within the scale £545 (at age 21 or over) x £20(3) x £25(4) x £30(2)-£765 plus London Weighting Allowance of up to £30 p.a.

Application forms may be obtained from the undersigned at 40 Eastbourne-terrace, London, W.2 and must be completed and returned by not later than 26th MAY.

E. G. BRAITHWAITE,
Secretary.

## CITY OF BRADFORD.

Applications are invited for the following permanent posts:—

(a) ASSISTANT ARCHITECTS (4), A.P.T. IV (£1,065-£1,220).
(b) ASSISTANT HEATING AND VENTILATING ENGINEERS (2), A.P.T. IV (£1,065-£1,220).

Candidates must be for (a) Corporate Members of the R.I.B.A. with varied office experience, and for (b) Corporate Members of the I.H.V.E. with experience in the design of Heating, Ventilating and Hot and Cold Water Services for large public buildings.

No assistance can be given in the provision of housing accommodation.

Application forms obtainable from the City Architect, Town Hall, returnable with copies of two recent testimonials by 30th MAY, 1959.

W. H. LEATHEM,
Town Clerk.

Town Hall,
Bradford 1.

## DEVON COUNTY COUNCIL

require 2 SENIOR ARCHITECTS on A.P.T. IV (£1,065-£1,220) and 2 SENIOR ARCHITECTS on N.J.C. Special Scale (£750-£1,030, increase under consideration). Full and interesting programmes of Schools and other County Buildings.

In approved cases, loans for house purchase and removal expenses are available—also lodging allowance for married officers while seeking accommodation.

Particulars and Application Form, returnable by 11th JUNE, 1959, from County Architect, 97 Heavitree-road, Exeter.

## EAST SUFFOLK COUNTY COUNCIL

ASSISTANT ARCHITECTS.

A.P.T. GRADE IV: £1,065-£1,220.

Applications are invited from qualified ARCHITECTS who have good general experience in design and construction, and are capable of taking charge of large projects with the minimum of supervision.

The starting salary in each case will be fixed according to qualifications and experience, and removal expenses will be paid in approved cases. The appointments are subject to the provisions of the Superannuation Acts and selected candidates will be required to pass a medical examination.

The posts offer interesting and responsible work in connection with the Council's extensive programme of school and other building.

Applications, stating age, qualifications, experience and present employment, together with copies of two recent testimonials, must be delivered to the County Architect, Mr. E. J. Cundliffe, A.R.I.B.A., County Hall, Ipswich, by the 26th MAY, 1959.

## BOROUGH OF OLDBURY.

BOROUGH SURVEYOR'S DEPARTMENT.

ARCHITECT'S SECTION.

Applications are invited for the following appointments in the Architects' Section of the Borough Surveyor's Department:—

(a) ARCHITECTURAL ASSISTANT, A.P.T. Grade II (£765/£880 per annum).
(b) ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£610/£765 per annum).

Candidates for appointment (a) should preferably have passed the Intermediate Examination of the R.I.B.A. and be capable of preparing working and detailed drawing and specifications.

The appointment offers to a suitable applicant an excellent opportunity of being engaged on a wide range of architectural projects including housing, education and other works.

Appointment (b). The appointment offers, to a competent draughtsman, experienced in the preparation of working and detail drawings, an excellent opportunity of being engaged on a wide range of architectural projects.

Both appointments will be superannuable, subject to the National Scheme of Conditions of Service, and to the selected candidate passing a medical examination.

Applications, giving particulars of age, qualifications, experience, and the names of two referees, should be delivered to the undersigned not later than MONDAY, 25th MAY, 1959.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury,
Nr. Birmingham.
May, 1959.

## WEST SUFFOLK COUNTY COUNCIL.

ENGINEER (in charge of Heating and Electrical Section), A.P.T. IV (£1,065-£1,220); National Joint Council Service Conditions; post pensionable; medical examination.

Applicants must hold appropriate professional qualifications and be experienced in the design and supervision of heating systems; preference will be given to applicants with experience in design of electric lighting and power installations.

Apply to County Architect, 13 Westgate-street, Bury St. Edmunds, for application form, also particulars of staff house and subsistence allowance; application to be returned by 1st JUNE, 1959.

## CITY OF WORCESTER.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the temporary appointment of a CLERK OF WORKS to supervise the erection of a new school at Warndon, Worcester, at a salary within A.P.T. Grade I (£610-£765) according to experience. It is expected that the contract will commence in June or July, 1959, and last approximately 15 months.

Applications stating age, qualifications and experience and giving the names of two referees are to be addressed to the City Engineer and Surveyor, 22 Bridge-street, Worcester, by 21st MAY, 1959.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

## CITY OF CANTERBURY.

ARCHITECTURAL ASSISTANT. A vacancy exists in the General Works Section of the City Architect's Department; salary scale within the Grades £610-£1,030, according to qualifications and experience. Applications are required from assistants with varied experience, capable of good detailing and presentation and some experience in specification writing.

Applications, with the names of two referees, to the City Architect and Planning Officer, Mr. J. L. Berblers, F.R.I.B.A., A.M.T.P.I., not later than FRIDAY, 29th MAY, 1959. Canvassing will disqualify.

J. BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.

## LONDON COUNTY COUNCIL.

BRIXTON SCHOOL OF BUILDING, FERNDALE-ROAD, S.W.4.

Required September, 1959, LECTURER IN CIVIL ENGINEERING. Should be Engineering Graduate of British University and Corporate Member of an appropriate professional body; experience of structural Engineering and teaching or research experience desirable. Burnham (F.E.) Scale, £1,260 x £31 10s. to £1,417 10s.

Application forms from Secretary (S.A.E.), returnable by 29th MAY, 1959. (1047.)

## CITY AND COUNTY OF NEWCASTLE UPON TYNE.

Applications are invited from suitably qualified persons for the following vacancies in the City Architect's Department (Structural Section):—

(a) SENIOR STRUCTURAL ENGINEER in Scale "C" (£1,385-£1,620 per annum).
(b) SENIOR ASSISTANT STRUCTURAL ENGINEER in the A.P.T. Division Grade V (£1,220-£1,375 per annum).

Applicants for post (a) must be Associate Members of the Institution of Structural Engineers or the Institution of Civil Engineers. The officer appointed will be the Head of the Section, and will be responsible for the preparation of calculations and detailed structural schemes for steel and reinforced concrete framed buildings, and experience in dealing with problems of special foundations will be an advantage.

Applicants for post (b) should preferably be Members of one of the above Institutions, and the officer appointed will be required to assist the Senior Structural Engineer in the duties outlined above.

Both appointments will be subject to the provisions of the Local Government Superannuation Acts, 1937-1953, and the successful candidates will be required to pass a medical examination.

Further particulars and Forms of Application may be obtained from George Kenyon, A.R.I.B.A., A.M.T.P.I., City Architect, 18 Cloth Market, Newcastle upon Tyne, 1.

Closing date for receipt of completed applications — MONDAY, 15th JUNE, 1959.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
8th May, 1959.

## BOROUGH OF MACCLESFIELD.

BOROUGH ARCHITECT'S DEPARTMENT.

APPOINTMENT OF QUANTITY SURVEYING ASSISTANT.

Applications are invited for the above appointment at a salary not exceeding A.P.T. II (£765-£880).

The appointment will be subject to the Scheme of Conditions of Service for A.P.T. Staff.

Housing accommodation may be made available if required.

The successful candidate will be required to pass a medical examination.

Applications stating age, present and previous appointments, qualifications, experience, etc., together with copies of two references should reach the undersigned not later than 12 noon on MONDAY, 1st JUNE, 1959.

WALTER ISAAC,
Town Clerk.

Town Hall,
Macclesfield.

## WILTON BOROUGH COUNCIL.

FORTY LOW-COST HOUSES AT BULBRIDGE, WILTON.

Applications are invited from suitably experienced and qualified men for the post of CLERK OF WORKS for this contract. Experience in cross-wall type of construction would be an advantage.

Applications, with full details of past experience, age, and salary required, should be sent in writing to the Council's Architects, Robert Potter, FRIBA., and Richard Hare, B.A.(Arch.), A.R.I.B.A., de Vaux House, Salisbury, not later than FRIDAY, the 29th MAY, 1959.

GEO. LEOPOLD LUSH,
Town Clerk.

Municipal Offices,
Kingsbury-square,
Wilton.
11th May, 1959.

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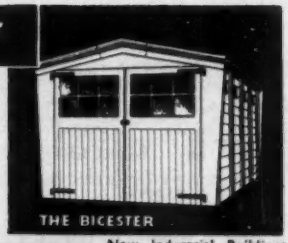

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**LONDON, S.E.8.**

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Bermondsey 3237.

## BOROUGH OF BEXLEY.

Applications are invited for the following posts in the Borough Engineer and Surveyor's Department:—

(a) TEMPORARY ASSISTANT QUANTITY SURVEYOR.

Salary within Grade A.P.T. II (£765 to £880 per annum) plus London Weighting. Candidates should preferably have passed the intermediate R.I.C.S. (Quantities) and have had considerable experience with housing schemes.

(b) ARCHITECTURAL ASSISTANT.

Salary within Grade A.P.T. I (£610-£765 per annum) plus London Weighting. Preference will be given to candidates who have passed the intermediate examination of the R.I.B.A. and have had experience in housing and school projects.

The Council may be prepared to assist in the provision of housing accommodation only for appointment (b). Forms of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by the 1st JUNE, 1959. Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk.

## SOUTHERN ELECTRICITY BOARD.

ARCHITECTURAL ASSISTANT.

Sub-Area Office of No. 3 (Portsmouth) Sub-Area. Salary N.J.B. Grade 5, Schedule "D" (£790 x £20—£890 per annum). N.J.B. Conditions of Service.

Candidates should have had experience in an Architect's office and be capable of designing and administering, during the construction stage, building work in connection with offices, showrooms, workshops, etc. The possession of suitable qualifications would be an advantage.

The post is permanent and pensionable and covered by attractive conditions of service, including five-day (38 hour) week, canteen facilities and liberal holidays with pay.

Applications on forms obtainable from the Sub-Area Secretary, Lower Draytonlane, Cosham, Portsmouth, and returned to him, quoting Z.1008, not later than 26th MAY, 1959.

## GOVERNMENT OF NORTHERN IRELAND.

QUANTITY SURVEYOR.

Applications invited from Corporate Members of the Royal Institution of Chartered Surveyors (Quantities) for unestablished post in Chief Quantity Surveyor's Branch, Ministry of Finance. Candidates should have several years' experience, particularly in "taking-off" for large building works, since obtaining their professional qualifications. Salary scale £1,210-£1,550. Prospects of establishment. Preference for ex-Servicemen.

Application forms obtainable from Director of Establishments, Room 271, Stormont, Belfast, to be completed and returned by 20th MAY, 1959.

## HIGHWORTH RURAL DISTRICT COUNCIL.

TEMPORARY BUILDING INSPECTOR.

Applications are invited for the above appointment in the Engineer and Surveyor's Department at a salary in accordance with Miscellaneous Grade VI.

Candidates must have a sound knowledge of building construction, and preference will be given to those with experience in the administration of Building Byelaws.

The appointment will be for a maximum period of two years and is terminable by one month's notice on either side. Housing accommodation on a Service Tenancy will be made available, and a travelling allowance in accordance with the National Scale for Essential Users in respect of a car not exceeding 10 h.p. will be payable.

Applications stating age and experience, and the names of two referees, must be delivered to the undersigned not later than 30th MAY, 1959.

W. S. G. MILLS,
Clerk of the Council.

Council Offices,
Bath-road,
Swindon,
Wilts.

## URBAN DISTRICT COUNCIL OF KIDSGROVE.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited from suitably qualified and experienced persons for the above appointment at a salary in accordance with A.P.T. Grade II. (The latest award has been accepted by the Council.)

Consideration will be given to the provision of housing accommodation for the successful candidate.

Further particulars and form of application may be obtained from the Engineer and Surveyor, Town Hall, Kidsgrove, Staffs, and applications should be returned to the Clerk of the Council by WEDNESDAY, 27th MAY, 1959.

O. LLOYD HURST,
Clerk of the Council.

Town Hall,
Kidsgrove,
Staffs.
May, 1959.

## HUYTON - WITH - ROBY URBAN DISTRICT COUNCIL.

ASSISTANT QUANTITY SURVEYOR. GRADE A.P.T. III: Salary £845 to £1,025.

Applicants should be suitably qualified, and should have had sound experience in preparing Bills of Quantities, Interim Valuations and Final Accounts for housing and other building works.

Applications stating age, experience, present position, together with the names of two referees must be sent to the Architect and Housing Director, Architectural and Housing Department, "Grasscroft," Archway-road, Huyton, by the 27th May, 1959.

## BANSTEAD URBAN DISTRICT COUNCIL.

HOUSING DEVELOPMENT SCHEME.

(CHAPEL-WAY AREA, TADWORTH.)

The Council are to consider instructing an Architect to prepare a Scheme for the development of 14 acres by the ERECTION of HOUSES, TWO- AND THREE-STOREY FLATS and OLD PEOPLE'S DWELLINGS. Practising Architects are invited to supply details of their qualifications and experience to the undersigned not later than 30th MAY, 1959.

Selected Architects will be asked to submit drawings, photographs, etc., of comparable schemes prepared by them.

F. L. SHAW,
Clerk of the Council.

The Council House,
Brighton-road,
Banstead.

## UNIVERSITY COLLEGE OF NORTH WALES, BANGOR.

Applications are invited from suitably qualified persons, who have had experience in controlling building tradesmen on repairs and maintenance work, for the post of ASSISTANT TO THE BUILDING MAINTENANCE OFFICER. The initial salary will be £700 per annum and the appointment will be from a date to be arranged with the successful applicant.

Applications, with the names and addresses of two referees, to be sent by the 1st JUNE, 1959, to the Registrar, University College of North Wales, Bangor, from whom further particulars may be obtained.

## BOROUGH OF BRENTFORD AND CHISWICK.

BOROUGH ENGINEFR AND SURVEYOR'S DEPT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT. Special Grade (£750-£1,030) or A.P.T. III (£880-£1,055) plus London Weighting allowance. Commencing salary according to qualifications and experience. Varied programme of work, mainly Housing Redevelopment and including multi-storey flats.

Consideration will be given to the provision of housing accommodation, if necessary.

Application forms returnable by 1st JUNE, 1959 may be obtained from the Borough Engineer and Surveyor.

W. F. J. CHURCH,
Town Clerk.

Town Hall,
Chiswick, W.4.
8th May, 1959.

## LANCASHIRE COUNTY COUNCIL.

Applications are invited for the posts of SENIOR ARCHITECTS, Senior Officer's Scale "A," £1,225-£1,390.

Applicants should possess a keen design sense, and a sound working knowledge of modern techniques in building construction.

Successful applicants will be required to work at all stages in the drawing office, and in site supervision of major building projects.

Application Forms from the County Architect, P.O. Box 26, County Hall, Preston quoting reference A/T.B. Previous applicants should not re-apply.

## METROPOLITAN BOROUGH OF SOUTHWARK.

Applications are invited for appointment of CLERK OF WORKS (unestablished) in the Borough Engineer and Surveyor's Department.

Salary: Grade A.P.T. II (£755 to £875 p.a. less £10 if under 26 years of age). An improved scale is due for consideration shortly.

The successful applicant will be required to supervise contracts for the construction of houses and flats in multi-storey blocks. A thorough knowledge of the building trade is essential, and applicants should be experienced in handling large contracts.

The appointment is subject to the Council's Conditions of Service of Officers. No housing provided. Canvassing will disqualify.

Applications on forms obtainable from me must be returned by NOON on 3rd JUNE, 1959.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant & Castle Underground Station).
Walworth-road, S.E.17.
8th May, 1959.

## UNIVERSITY COLLEGE, LONDON, GOWER-STREET, W.C.1.

CLERK OF WORKS Required about mid-June to supervise extensive CONVERSION OF EXISTING PREMISES INTO KITCHENS, REFECTORIES, etc., including installation of ventilating plant, kitchen equipment, etc. Duration of work about 18 months. Salary about £850 p.a. Applications to Secretary, giving age, qualifications and experience, and names and addresses of two referees.

## LONDON COUNTY COUNCIL.

TECHNICAL ASSISTANTS required in Quantities Division for (a) measuring variations on small buildings, landscape and site works and preparation and settlement of final accounts; knowledge of approximate estimating an advantage. (b) Working-up and site measurement under supervision. Up to £860 a year, commencing according to qualifications and experience. Apply to Chief Officer, Parks Department (AI/E), County Hall, London, S.E.1. (WATerloo 5000 Ext. 8076.) (850.)

## QUANTITY SURVEYING

ASSISTANTS required by Air Ministry in the Provinces. Duties include abstracting and billing, site measurement and preparation of estimates. Commencing salary according to age, qualifications and experience. Salary ranges from £680 at age 26 rising to £850. Candidates must hold O.N.C. (Building or Builders' Quantities) or equivalent and have good experience under Quantity Surveyor or Building Contractor. Knowledge W.D. Schedule an advantage. Approved full time study will count towards period of experience. Promotion and pensionable prospects. 5-day week, 3 weeks' leave a year. Appointments carry liability for service anywhere U.K. or overseas. Applicants normally should be natural born British subjects. Write, stating age, qualifications and previous appointments, including type of work done, to Manager, Professional and Executive Register, Ministry of Labour and National Service, Atlantic House, Farringdon-street, London, E.C.4, quoting reference PE105/745. No original testimonials should be sent. Only applicants selected for interview will be advised.

## GOVERNMENT OF NORTHERN IRELAND.

(A) ASSISTANT ARCHITECT, CLASS II.

(B) ARCHITECTURAL ASSISTANT.

Applications invited for above posts in Chief Architect's Branch, Ministry of Finance. Posts (A) are pensionable and candidates must be Registered Architects by examination with at least two years' experience in an Architect's Office in preparing working drawings. Salary scale £805 (at age 25)-£1,095 (age 34 and over)-£1,260. Existing pension rights may, in certain circumstances, be transferred.

Candidates for unestablished posts (B) should have recognised architectural training and fair experience. Salary scale £585-£905; appointees who have passed R.I.B.A. Intermediate examination start at £730.

Preference for ex-Service men. Application forms for *both* posts obtainable from Director of Establishments, Room 271, Stormont, Belfast.

## CITY OF OXFORD.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the following posts in the Department which has a very full programme of interesting work in hand including redevelopment schemes in the centre of the City, involving multi-storey Housing and Garage schemes; a new Shopping Centre and Office buildings, in addition to the normal programme of Schools, Housing and Health Buildings.

A high standard of design ability and a keen interest in contemporary architecture are essential. Assistants are encouraged to control their own contracts from Sketch Design stage onwards.

(1) ONE CHIEF ARCHITECTURAL ASSISTANT, Grade A.P.T. V (£1,220-£1,375).

Must have had considerable knowledge of the running of large contracts and competent to lead and inspire a team.

(2) TWO SENIOR ARCHITECTURAL ASSISTANTS, A.P.T. IV (£1,065-£1,220).

Should have a wide knowledge of modern methods of construction and contract procedure.

(3) THREE ARCHITECTURAL ASSISTANTS, Special/A.P.T. IV, according to experience.

A high standard of design and sound knowledge of construction are required.

Candidates for all posts should be A.R.I.B.A. and, for post (1) a town planning qualification would be an advantage.

Housing Accommodation will be made available if required for all posts.

Further particulars and application form can be obtained from E. G. Chandler, A.R.I.B.A., M.T.P.I., City Architect and Planning Officer, Town Hall, Oxford, and are to be returned completed by 6th JUNE, 1959.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

## METROPOLITAN BOROUGH OF SOUTHWARK.

Applications are invited for the following appointments to the Borough Engineer and Surveyor's Department:—

(a) ASSISTANT QUANTITY SURVEYOR, A.P.T. IV (£1,055 to £1,205).

Candidates must be qualified and experienced for duties, including Taking-off quantities for large housing schemes, post-Tender measuring services and final accounts.

(b) ASSISTANT QUANTITY SURVEYOR, A.P.T. III (£875 to £1,055).

Candidates must be qualified and experienced to handle measurement of works in progress and valuation for interim certificates, together with some Taking-off, abstracting and billing and final measurement.

(c) ASSISTANT QUANTITY SURVEYOR, A.P.T. II (£755 to £875).

Candidates must be qualified to Intermediate level and experienced to handle measurement of works in progress and valuation for interim certificates, together with some abstracting and billing and final measurement.

An improved salary scale is due for consideration shortly.

The appointments are subject to the Council's Conditions of Service of Officers. No housing provided. Canvassing will disqualify.

Further details and application forms are obtainable from the undersigned and must be returned by FIRST POST on 3rd JUNE, 1959.

Please indicate clearly the post and grade applied for.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant & Castle Underground Station).
Walworth-road, S.E.17.
8th May, 1959.

## METROPOLITAN BOROUGH OF SOUTHWARK.

Applications are invited for the following appointments to the Borough Engineer and Surveyor's Department:—

(a) ARCHITECTURAL ASSISTANT: A.P.T. V (£1,205 to £1,355).

Candidates must be Associates of the Royal Institute of British Architects with considerable experience and capable of leading a team engaged upon a large and varied programme of new housing (mixed development) and other schemes. Commencing salary £1,205 per annum.

(b) ARCHITECTURAL ASSISTANT: A.P.T. IV (£1,055 to £1,205).

Candidates must be Associates of the Royal Institute of British Architects and well experienced and able to take charge of a design group concerned with a large programme of mixed housing development and possible other schemes.

(c) ARCHITECTURAL ASSISTANTS: A.P.T. I (£605 to £755 or A.P.T. II (£755 to £875).

An improved salary scale is due for consideration shortly.

The appointments are subject to the Council's Conditions of Service of Officers. No housing provided. Canvassing will disqualify.

Further details and application forms are obtainable from the undersigned and must be returned by first post on 3rd JUNE, 1959.

Please indicate clearly the post and grade applied for.

E. J. PITT,
Town Clerk.

Southwark Town Hall
(near Elephant and Castle Underground Station),
Walworth-road, S.E.17.
8th May, 1959.

## CITY OF ROCHESTER.

CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the City Surveyor's Department on A.P.T. IV (£1,065-£1,220).

Candidates should be Associates of the Royal Institute of British Architects, and administrative ability is essential in addition to a good general experience, particularly in the preparation of drawings and specifications for municipal housing and buildings, including shops and flats. The commencing salary will be according to qualifications and experience.

There is a varied programme of work, including the redevelopment of clearance areas and the development of a large area added to the City.

In an appropriate case the City Council will provide the successful candidate with suitable housing accommodation, and will be prepared to refund removal expenses after 12 months' service.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, and a satisfactory medical examination; one month's notice on either side.

Applications, stating age, qualifications and experience, together with the names and addresses of three persons to whom reference may be made, should be delivered to the City Surveyor, 66 Maidstone-road, Rochester, not later than MONDAY, 8th JUNE, 1959.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall,
Rochester.
6th May, 1959.

## NEWCASTLE REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.

During the next two years the Board plans to spend several millions on hospital developments and larger programmes are being planned to follow. The present building programem includes a wide variety of projects, ranging from houses to hospitals, and (since a large hospital resembles a small town) affords ample opportunity for gaining both general and hospital experience simultaneously.

The following posts in the Regional Architect's Department are at present open to applicants. The salary scales quoted include interim increases pending completion of a current Health Service review of salaries.

(i) ASSISTANT ARCHITECTS (4). Salary £730 x £25(2) x £30(2) x £35 (5) x £40(1)-£1,055.

Applicants should be registered architects and have had experience of the planning and construction of public buildings. The commencing salary will be fixed within the Grade by reference to relevant experience and to age.

(ii) ARCHITECTURAL ASSISTANT. Salary £545 at age 21 x £20(3) x £25(4) x £30(2) to £765.

Applicants should have passed the Intermediate Examination of the R.I.B.A., or an examination recognised by the Institute as equivalent, and some practical experience is desirable.

The commencing salary within the grade will depend upon the applicant's age and practical experience, but will not exceed £605.

(iii) ARCHITECTURAL DRAUGHTSMAN. Salary £445 x £25(5) x £30(3)-£660.

Applicants should have had previous experience in an architect's drawing office and be neat and quick draughtsmen.

Evening study facilities are available at King's College of Durham University in Newcastle.

Applications, stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (of whom at least two should be architects) should be forwarded to the Secretary to the Board, Benfield-road, Newcastle-upon-Tyne, 6, not later than 28th MAY, 1959.

## NATIONAL COAL BOARD.

SOUTH WESTERN DIVISION.

Applications are invited for the following appointments in the Divisional Chief Architect's Branch, Cambrian Buildings, Mount Stuart-square, Cardiff.

ARCHITECTURAL ASSISTANT, Grade I. Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects and have not less than three years' subsequent experience, or have passed the Final Examination, and have had less than one year's subsequent experience.

Salary scale: (Male) £715 x £25-£850 per annum. (Female) £610 x £21-£720 per annum plus Equal Pay Instalment.

Applicants of exceptional ability and experience may in special circumstances be given up to £150 above the scale maximum in the Grade.

Please quote Staff Vacancy No. 64/40.

ARCHITECTURAL ASSISTANT, Grade II. Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects and have had less than three years' subsequent experience. Applications will also be considered from those who have had exceptional practical experience but not passed the Intermediate Examination.

Salary scale: (Male) £595 x £25-£710 per annum. (Female) £507 x £21-£602 per annum plus Equal Pay Instalment.

Please quote Staff Vacancy No. 65/40.

Full particulars of age, qualifications, experience and positions held together with details of present post and salary should be sent to the Divisional Chief Staff Officer, National Coal Board, Cambrian Buildings, Mount Stuart-square, Cardiff, by 25th MAY, 1959.

## LANCASHIRE COUNTY COUNCIL.

Applications are invited from QUALIFIED HEATING AND VENTILATING ENGINEERS experienced in design of Central Heating Schemes and Hot Water Installations, using all types of fuel.

Permanent staff appointment in A.P.T. Grade IV (£1,065-£1,220). Starting point according to experience.

Previous applicants need not re-apply.

Application Forms returnable by 22nd MAY, 1959, from the County Architect, P.O. Box 26, County Hall, Preston, reference A/B.

## COUNTY BOROUGH OF BLACKPOOL.

Applications are invited for appointment to posts for CIVIL OR MUNICIPAL ENGINEERS within the following grades.

A.P.T. I—£575-£725 per annum.
A.P.T. II—£725-£845 per annum.
Special Grade—£750-£1,030 per annum.

Particulars and Application Forms obtainable from Borough Surveyor (Arthur Hamilton, B.Sc.), P.O. Box 17, Municipal Buildings, Blackpool.

ERNEST C. LEE,
Town Clerk.

## PADDINGTON BOROUGH COUNCIL

require BUILDING SURVEYING ASSISTANT (A.P.T. I, £605 to £755 per annum). Candidates should have practical knowledge of building construction, experience in surveying and levelling, the repair, adaptation and conversion of civic and residential properties, and be capable of preparing plans, specifications and estimates of costs in respect of those works and their supervision. Candidates preferred at advanced stage of preparation for R.I.C.S. Intermediate or equivalent examination. Written applications stating age, qualifications, experience and names and addresses of three referees should reach the undersigned (quoting A.412) by 25th MAY, 1959.

W. H. BENTLEY,
Town Clerk.

Town Hall,
Paddington Green, W.2.

## BRACKNELL DEVELOPMENT CORPORATION.

Applications are invited for the post of QUANTITY SURVEYOR. Salary range £934-£1,146 (under review). Preference will be given to Corporate members of the R.I.C.S. Duties embrace Housing, Town Centre and Industrial buildings, Superannuation schemes, medical examination. Housing available. Apply by 25th MAY, 1959, giving age, education and qualifications, experience and appointments held (with dates and salaries) and names of two referees, to General Manager (Q.S.), Bracknell Development Corporation, Farley Hall, Bracknell, Berks.

## THURROCK U.D.C.

(Engineer and Surveyor's Dept.) require BUILDING INSPECTOR. Salary, A.P.T. I, £610-£765 p.a. Travelling allowance in accordance with National Scale payable in respect of 10 h.p. car where successful applicant owns a car. Applicants should have thorough knowledge of Building Inspection and the examination of plans deposited under byelaws. Appointment pensionable. Applications, stating age, experience and present appointment and quoting three referees, to Clerk of the Council, Council Offices, Grays, Essex, by 19th MAY, 1959. Canvassing disqualifies. Relationship to Members or Senior Officers of the Council must be disclosed.

## COUNTY BOROUGH OF WEST HAM.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications invited for the following established posts:—

(a) DEPUTY GROUP ARCHITECT. Must be A.R.I.B.A.

(b) ASSISTANT PLANNING OFFICER. Must be A.M.T.P.I. or equivalent.

Salaries in accordance with Special Grade, £750 x £40-£1,030 (pending review) and London Allowance (commencing point in Grade according to experience and qualifications).

Application forms and details from Borough Architect and Planning Officer, 70 West Ham-lane, Stratford, E.15, returnable by 26th MAY, 1959.

## CITY OF NEW SARUM.

CITY ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments on the established staff of the City Engineer:—

(i) ENGINEERING ASSISTANTS (Grades A.P.T. II, III or Special).

(ii) ARCHITECTURAL ASSISTANTS (Grades A.P.T. II, III or Special).

In each case the starting salaries will be dependent upon age, experience and qualifications.

The posts are pensionable and subject to National Joint Council conditions, medical examination and one month's notice on either side.

Housing accommodation will be made available if required.

Both appointments offer *inter alia* an interesting variety of design problems in connection with the Council's capital works programme.

Applications stating age, qualifications, present and previous appointments with salary, together with the names of two referees to The City Engineer, The Council House, Bourne Hill, Salisbury, by WEDNESDAY, 20th MAY, 1959.

GEO. RICHARDSON,
Town Clerk.

## COUNTY BOROUGH OF READING.

Applications invited for the appointment of ASSISTANT ARCHITECTS who have passed Parts I and II, R.I.B.A. Final of Special Final Examination or their equivalent and have had at least five years' experience. Salary range at present £750 x £40-£1,030, according to experience. Posts permanent and appointment subject to N.J.C. Conditions. Housing accommodation will be considered. Applications, stating age, qualifications and experience, together with names and addresses of two referees, to Borough Architect, P.O. Box 17, Town Hall, Reading, not later than 1st JUNE, 1959.

## LONDON COUNTY COUNCIL.

Vacancies for ENGINEERING ASSISTANTS (up to £860) and ENGINEERS. Grade III (up to £1,090) (scales at present under review) in:—

(a) STRUCTURAL ENGINEERING DIVISION—Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings; and,

(b) DISTRICT SURVEYORS' SERVICE—In districts coinciding, with one exception, with Metropolitan Borough Boundaries. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress. Good prospects in both of these aspects of the Council's work.

Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/45/59, County Hall, S.E.1. (925.)

## MANCHESTER CORPORATION.

CITY ARCHITECT'S OFFICE.

DEPUTY CHIEF STRUCTURAL ENGINEER.

Vacancy for DEPUTY CHIEF STRUCTURAL ENGINEER in the A.P.T. Scale IV, £1,065 to £1,220. Candidates must be an A.M.I.Struct.E., or A.M.I.C.E. and have had at least 5 years' design experience since becoming an associate member. Should also have a sound knowledge of design in reinforced concrete, steelwork and structural timber work together with an adequate knowledge of current byelaws and codes of practice. Housing accommodation may be provided for a limited period. Removal expenses. Application forms from City Architect, Town Hall, Manchester, 2, returnable by 29th MAY.

## CITY OF SALFORD.

DIRECT WORKS DEPARTMENT.

Applications are invited from suitable qualified persons for the following appointment in the above Department:—

TECHNICAL ASSISTANT (Electrical and Heating), Grade A.P.T. II-III. Salary £765 to £1,065 per annum.

Applicants must have had considerable experience in the preparation of estimates for electrical and heating contracting, together with the preparation of specifications for minor alterations and extensions. Preference will be given to persons holding suitable qualifications, e.g., A.M.I.H.E. and A.M.I.E.E.

Housing accommodation may be considered in approved circumstances.

This post is superannuable and subject to a Medical Examination.

Applications, giving details of present and previous appointments, qualifications and experience, together with the names and addresses of two referees, should be sent to the General Manager, Direct Works Department, Unwin-street, Cross-lane, Salford, 5, so as to be received not later than 10 a.m. on MONDAY, 25th MAY, 1959.

R. RIBBLESDALE THORNTON,
Town Clerk.

## DUNDEE TECHNICAL COLLEGE.

BUILDING DEPARTMENT.

The Governors of Dundee Institute of Art and Technology invite applications for the position of LECTURER IN BUILDING SUBJECTS.

Salary Scale Grade II(a) £785 x £35-£890-£1,250 x £50-£1,350, plus 5 per cent. at each "point" on the scale.

Placing on the scale will be given for previous industrial and/or teaching experience.

Duties will include lecturing in Ordinary and Higher National Certificate Courses, and for the examinations of professional bodies including The Royal Institution of Chartered Surveyors; The Institute of Quantity Surveyors; The Institute of Builders, and The Royal Sanitary Association of Scotland.

Favourable consideration will be given to holders of qualifications suitable for the training of Sanitary Inspectors and ability to take classes in Building Construction and Building Science.

Further particulars and form of application (to be returned not later than 31st MAY, 1959) may be obtained from the Clerk and Treasurer, 40 Bell-street, Dundee.

## ARCHITECTURAL ASSISTANT

Required by HAYES & HARLINGTON U.D.C. Salary within Grade A.P.T. II, i.e. £765-£880 per annum, plus appropriate London "Weighting." 21-25 years £20 per annum, 26 years and over £30 per annum. Candidates must have had a good general architectural experience and preference will be given to applicants who have passed the R.I.B.A. Intermediate Examination. The Council is unable to assist with the provision of housing accommodation. Five-day week. Further particulars and conditions of service and form of application obtainable from the undersigned, which when completed must be returned by 1st JUNE, 1959.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes,
Middlesex.

## AIR MINISTRY WORKS

Design Branch requires in London, CIVIL ENGINEERING DESIGNER DRAUGHTSMAN experienced in one or more of the following branches of engineering: (a) Earthworks and Stormwater Drainage; (b) Foul drainage and small disposal works; (c) Water pumping and distribution. Salaries up to £1,055 p.a. Starting pay dependent on age, quals. and exp. Long term possibilities with promotion and pensionable prospects. Five-day week, three weeks' three days' leave a year. Liability for overseas service. Normally natural born British subject.

Write stating age, quals., employment details including type of work done, to any employment exchange quoting Order No. Borough 252.

## AIR MINISTRY WORKS

Design Branch requies in London and Provinces ARCHITECTURAL ASSISTANTS, experienced in planning/preparation of working drawings and details for permanent and semi-permanent buildings. Salaries in LONDON, up to £1,055 p.a. for men and £1,008 p.a. for women. Somewhat lower in Provinces. Starting pay dependent on age, qualifications and experience. Long-term possibilities with promotion and pensionable prospects. Five-day week, 3 weeks' 3 days' leave a year. Liability for overseas service (for men). Normally natural born British subjects.—Write stating age, qualifications, employment details including type of work done to any Employment Exchange quoting Order No. Borough 250.

## SURREY COUNTY COUNCIL.

Applications invited for following appointments:—

1. GRADE V (£1,220-£1,375 p.a. plus £30 p.a. London Allowance):—

ARCHITECTS. In addition to a minimum of 10 years' experience, after qualifying as Associate R.I.B.A., and general architectural ability, candidates must be capable of leading a small team dealing with medium and large scale contracts.

QUANTITY SURVEYORS. Must be qualified A.R.I.C.S. with experience as Senior Taker-off and of final accounts, estimating, cost analysis and pricing, including directing and supervising team of qualified and junior staff.

STRUCTURAL ENGINEERS. Must have at least 10 years' experience, after qualifying as Associate Member I.Struct.E., in the design and detailing of steelwork and/or reinforced concrete for medium to large scale contracts. Successful applicant must be capable of leading a small team of assistants.

HEATING AND VENTILATING ENGINEERS. Must have at least 10 years' experience, after qualifying as Associate Member I.H. & V.E., in the design of large heating, ventilating, hot water supply and gas service installations. The successful applicant must be capable of taking charge of works from beginning to final completion.

2. SPECIAL GRADE (£750-£1,030 p.a. plus £30 p.a. London Allowance, subject to revision):—

ARCHITECTS. Must be A.R.I.B.A. and experienced in design and detailing.

QUANTITY SURVEYORS. Commencing salary in accordance with experience. Must be Chartered Quantity Surveyors with experience on major contracts, including adjustment of final accounts.

STRUCTURAL ENGINEERS. Qualified Civil or Structural Engineer, experienced in design and detailing in steel and/or reinforced concrete.

HEATING AND VENTILATING ENGINEERS. Must be A.M.I.H. & V.E. and experienced in heating and ventilating installations. Preferably experienced in testing boiler efficiencies.

ELECTRICAL ENGINEERS. Must be A.M.I.E.E. and experienced in electrical services in buildings.

BUILDING SURVEYORS. Must be A.R.I.C.S. (Bldg. Sub. Div.) Capable drafting specifications in all trades, preparation Schedules of Dilapidations, detailed estimates for general maintenance works and surveys of properties.

3. GRADE II (£765-£880 p.a. plus up to £30 p.a. London Allowance, according to age):—

ARCHITECTS. Must be of good general training, preference given those who have passed Inter. R.I.B.A.

ENGINEERING ASSISTANTS. With practical experience of erection of heating and h.w.s. installations. Experienced in design of small systems, specifying and supervising work to be carried out by Contractors in replacement of heating and h.w.s. boilers, pumps, kitchen equipment, etc., general maintenance of services and minor alterations and additions to existing installations.

Full details, present salary and 3 copy testimonials to County Architect, County Hall, Kingston, by 30th MAY, 1959.

The County Council have adopted a five-day week.

## BOROUGH OF LUTON.

HOUSING DEPARTMENT.

TECHNICAL ASSISTANT.

Applications are invited for this appointment. Salary A.P.T. I-II (£610-£880). Details obtainable from Director of Housing, Town Hall, Luton, to whom applications must be made by 23rd MAY, 1959.

## CIVIL SERVICE.

QUANTITY SURVEYORS and ASSISTANT QUANTITY SURVEYORS required by Admiralty, War Office, Air Ministry, Ministry of Works, Ministry of Education and Department of Scientific and Industrial Research, in most parts of United Kingdom and occasionally overseas. Although unestablished, these posts have long term possibilities. London salaries for those suitably qualified and experience over 25 years of age, range from £830 to £1,300 per annum. Vacancies also exist for QUANTITY SURVEYING ASSISTANTS and others having some experience in Quantity Surveying at salaries ranging from £350 per annum upwards. Write quoting reference J.Q.S., to Room 403, M.I.N.S., Technical and Scientific Register (J), 26 King-street, London, S.W.1.

## CITY OF SHEFFIELD
EDUCATION COMMITTEE.

APPOINTMENT OF ENGINEER AND SURVEYOR.

Applications are invited from men with appropriate and recognised qualifications for the above APPOINTMENT which includes full responsibility to the Director of Education for the maintenance, repair and upkeep of all buildings and grounds within the jurisdiction of the Education Committee. Salary scale A.P.T. V (£1,220-£1,375). Appointment subject to N.J.C. conditions of service and conditional upon satisfactory medical examination. Further particulars and form of application (returnable not later than 1st JUNE, 1959) from the undersigned.

T. H. TUNN,
Director of Education.

Education Office,
Sheffield, 1.

## LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

HOUSING DIVISION.

Vacancy for Technical Assistant in the Sites Managers' Group for preparation of plans and other record data in connection with ground exploration of building sites. Up to £860 (at present under review) commencing according to qualifications and experience. Application form returnable by 26th MAY, from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EM/51/59, The County Hall, S.E.1. (1055.)

## COUNTY BOROUGH OF SUNDERLAND.

CHIEF ASSISTANT ARCHITECTS—Grade A.P.T. IV (maximum £1,220).

SENIOR ARCHITECTURAL ASSISTANTS—A.P.T. II (maximum £880).

Applications are invited for the above posts. Particulars of the appointments may be obtained from the Borough Architect, Grange House, Stockton-road, Sunderland. Applications must be addressed to me and received at my office, Town Hall, not later than 12th JUNE, 1959.

Canvassing will disqualify.

G. S. McINTIRE,
Town Clerk.

## BOROUGH OF SOLIHULL.

APPOINTMENT OF ARCHITECTS.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT, Grade A.P.T. IV: £1,065-£1,220 p.a.

(b) JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. II: £765-£880 p.a.

(c) JUNIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. I: £610-£765 p.a.

Applicants for post (a) must be fully qualified, competent designers and only persons with initiative and drive need apply.

Applicants for post (b) should have passed the Intermediate Examination of the Royal Institute of British Architects, whilst

Applicants for post (c) should be studying for that examination.

Where applicable housing accommodation will be made available as soon as possible and half removal expenses paid.

Applications, stating age, qualifications and experience, and giving the names of two referees, should be sent to the Borough Engineer and Surveyor, 90 Station-road, Solihull, not later than 22nd MAY, 1959.

W. MAURICE MELL,
Town Clerk.

The Council House,
Solihull.

## QUANTITY SURVEYORS
FOR COST-PLANNING.

Architect's Department, L.C.C., requires QUALIFIED QUANTITY SURVEYORS (A.R.I.C.S.), for preliminary estimating and cost-planning in carrying out of large and varied building programme.

Salaries (Grade II): £1,037 10s. to £1,305.

Vacancies also for candidates with good general quantity surveying experience suitable to be trained in estimating and cost-planning work.

Salaries (Grade III): £815 to £1,090; Technical Assistant, up to £860.

Starting point according to qualifications and experience. Holiday arrangements respected. Salaries under review.

Application form returnable by 27th MAY, and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council AR/EK/47/59, County Hall, S.E.1. (1034)

## BLACKPOOL.

Vacancies for:—

GROUP ASSISTANT ARCHITECTS, A.P.T. V.

ASSISTANT ARCHITECTS, Special Scale.

QUANTITY SURVEYING ASSISTANT, A.P.T. II.

Forms: Arthur Hamilton, B.Sc., A.R.I.B.A., Borough Surveyor, P.O. Box 17, Municipal Buildings, Blackpool. Closing date 27th MAY.

## CITY OF NOTTINGHAM.

CITY ENGINEER'S DEPARTMENT.

ASSISTANT QUANTITY SURVEYORS/MEASURING SURVEYOR.

Applications are invited for the following appointments in the City Engineer's Department:—

(a) ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. IV, i.e. £1,025 per annum rising by annual increments to £1,175 per annum.

Applicants should be Associates of the Royal Institute of Chartered Surveyors, or have extensive professional experience. The person appointed will be required to be responsible for all the quantity surveying work on individual major contracts.

(b) QUANTITY SURVEYING ASSISTANT or MEASURING SURVEYOR, Grade A.P.T. I, i.e. £575 rising by annual increments to £725 per annum.

Applicants should have had experience of measuring, estimating, and/or builders' book-keeping, and accounts in the building industry. Opportunities and facilities will be given to a suitable man to widen his experience and qualify as a Quantity Surveyor.

Commencing salary in each case will depend on qualifications and experience.

Assistance with housing may be given.

A National Salary Award has recently been announced which would increase the maximum of post (a) to £1,220 and post (b) to £765 per annum. This Award has not yet been considered by the Corporation.

Applications are to be made on forms to be obtained from R. M. Finch, Esq., O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, and should be returned to him not later than 29th MAY, 1959.

## ARCHITECTS AND
BUILDING SURVEYORS.

The L.C.C. (Architect's Department) requires ARCHITECTS and BUILDING SURVEYORS interested in modernisation and conversion of older blocks of Council Flats which are being undertaken in the General Division. Up to £1,090 according to qualifications and experience. Salaries at present under review. Holiday arrangements respected. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/48/59, County Hall, S.E.1. (1036)

## LONDON COUNTY COUNCIL.

HAMMERSMITH COLLEGE OF ART AND BUILDING.

Applications invited for post of SENIOR LECTURER IN BUILDING to be responsible for organisation, supervision and development of Diploma and Certificate courses in Building. Ability to teach Building Construction to H.N.C. standard, also appropriate professional qualification essential; subjects for the Institute of Builders' Examinations and teaching experience an advantage.

Burnham F.E. Salary Scale £1,417 10s. x £52 10s.—£1,627 10s. plus London allowance £37 16s. or £50 8s. according to age. Application forms from Secretary at College, Lime-grove, W.12, to be returned by 5th JUNE, 1959. (1016.)

## BOROUGH OF BROMLEY.

TECHNICAL ASSISTANT.

Applications are invited for this appointment on salary scale A.P.T. II (£765-£880) plus London Weighting.

Applicants should have a good knowledge of Drawing Office routine, and experience of building, structural or Civil Engineering detailing.

Applications stating age, qualifications, experience, present appointment and salary, and the names of two referees, should reach the Borough Engineer by the 25th MAY, 1959.

LIONEL KAYE,
Town Clerk.

Municipal Buildings,
Bromley, Kent.
5th May, 1959.

## COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following temporary appointments:—

SENIOR ASSISTANT ARCHITECT, Grade IV, £1,065-£1,220.

ARCHITECTURAL ASSISTANT, Grade II, £765-£880.

London Weighting is paid in addition, and salaries in excess of the minima may be paid according to qualifications and experience. The appointments are for work on a new Technical College and are expected to be for a period of not less than 3 years.

Further details and application forms returnable by 29th MAY, 1959, from the Town Clerk, Town Hall, East Ham, E.6.

## LOUGHBOROUGH
COLLEGE OF TECHNOLOGY.

Work is shortly to start on the construction of new TEACHING BUILDINGS to the value of £850,000 0s. 0d. and applications are invited for the post of CLERK OF WORKS.

Apply in the first instance, giving full details of previous experience, references and salary required, to Richard Sheppard, Robson and Partners, 5 Southampton-place, London, W.C.1, not later than 30th MAY.

## METROPOLITAN
BOROUGH OF GREENWICH.

APPOINTMENT OF INSPECTOR OF WORKS.

Applications are invited for the appointment of INSPECTOR OF WORKS (unestablished) for the supervision of new housing projects.

Applicants must have a sound knowledge of the building trades and of the erection and maintenance of houses and flats.

Grade Miscellaneous VI. Salary £715 to £775 p.a. subject to review, inclusive of £30 London Weighting—commencing point according to qualifications and experience.

Forms of application obtainable from and returnable to the undersigned by 23rd MAY, 1959.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
8th May, 1959.

## COUNTY BOROUGH OF ST. HELENS.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, A.P.T. GRADE I (£610-£765) in the Borough Engineer's Department.

The commencing salary will be fixed within the grade according to qualifications and experience.

The appointment will be terminable by one month's notice and will be subject to the Local Government Superannuation Acts, medical examination and N.J.C. Service Conditions.

Applications, giving the names of two referees must be forwarded to the undersigned not later than MONDAY, the 25th MAY, 1959.

Applicants must reveal relationship to any member or senior official of the Council.

Canvassing will disqualify.

M. WARD, M.I.Mun.E., M.T.P.I.,
Borough Engineer.

Town Hall,
St. Helens.

## BOROUGH OF CHELMSFORD.

CLERK OF WORKS.

The Council invite applications for the appointment of CLERK OF WORKS for their proposed civic centre building. Salary £13 13s. 0d. per week rising by two annual increments of 10s. 6d. per week to a maximum of £14 14s. 0d. per week.

For further particulars write to the Borough Engineer and Surveyor, Municipal Offices, Chelmsford. Closing date for receipt of applications—1st JUNE, 1959.

B. A. FRANCIS,
Town Clerk.

Municipal Offices,
Chelmsford.

## BOROUGH OF BROMLEY.

ARCHITECTURAL ASSISTANT.

Applications are invited for this appointment on salary scale A.P.T. II (£765-£880 plus London Weighting.

Applications stating age, qualifications, experience, present appointment and salary, and the names of two referees should reach the Borough Engineer by 25th MAY, 1959.

LIONEL KAYE,
Town Clerk.

Municipal Buildings,
Bromley,
Kent.
5th May, 1959.

## THE ARCHITECTURAL
ASSOCIATION SCHOOL OF ARCHITECTURE.

SENIOR LECTURER IN BUILDING ENGINEERING SERVICES.

Applications are invited for the post of SENIOR LECTURER IN SERVICES, starting September, 1959. Salary not less than £1,200 per annum for 4 days a week during term time. Research work and a limited amount of private consultation work encouraged. Further details of the appointment can be had on application to the Secretary of the Architectural Association, 36 Bedford-square, W.C.1.

## COUNTY BOROUGH OF WEST BROMWICH.

Applications are invited for the following appointments.

ASSISTANT ARCHITECTS: Salary A.P.T. Grade II (£765-£880).

ARCHITECTURAL ASSISTANTS: Salary A.P.T. Grade I (£610-£765).

N.J.C. Conditions of service.

Applications, naming two referees, to Borough Surveyor, Town Hall, West Bromwich, by 23rd MAY, 1959.

## STEVENAGE
DEVELOPMENT CORPORATION.

Applications are invited for a post in the Chief Architect's Department, of ASSISTANT QUANTITY SURVEYOR, on New Towns Salary Grade A.P.T. II-III, £631-£811 p.a. Commencing salary will be fixed according to qualifications and experience.

Candidates should be suitably qualified and have experience in "working-up" Bills of Quantities, measurement of variations, etc.

The successful candidate will be engaged on work of an interesting nature relating to the building of a New Town, comprising Shopping Centres, Housing and Multi-storey Flats, Office Blocks and Industrial Buildings.

Housing accommodation will be available in due course in appropriate cases.

Applications giving details of qualification, experience and the names of two referees should be sent to Chief Administrative Officer, Aston House, Nr. Stevenage, Herts, not later than MONDAY, 1st JUNE, 1959.

## COUNTY BOROUGH OF BOOTLE.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of ONE ARCHITECTURAL ASSISTANT on Grade II, £765 to £880 per annum.

Preference will be given to those having experience in the design and planning of houses.

Application forms, obtainable from the Borough Surveyor, Town Hall, Bootle 20, Lancs., are returnable by FRIDAY, 29th MAY, 1959.

By Order,
HAROLD PARTINGTON,
Town Clerk.

## BOROUGH OF NEWCASTLE UNDER LYME.

REQUIRES:
TWO ASSISTANT QUANTITY SURVEYORS.
GRADE A.P.T. II (£765-£880 p.a.)

Commencing salaries will be in accordance with qualifications and experience.

The department has contracts pending for several new schools in addition to housing and general works.

The Council will consider the provision of housing accommodation in suitable cases.

Application Forms may be obtained from the Borough Engineer and Surveyor, Lancaster Building, Newcastle, Staffs, and must be returned to him not later than MONDAY, 1st JUNE, 1959.

C. J. MORTON,
Town Clerk.

## COUNTY BOROUGH OF DEWSBURY.

BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT QUANTITY SURVEYOR, Special Grade.

(b) TOWN PLANNING ASSISTANT, A.P.T. Grade I.

(c) ARCHITECTURAL ASSISTANT, A.P.T. Grade I.

The commencing salaries will be fixed within the scope of the grades stated according to qualifications and experience, i.e. Special Grade £750-£1,030 per annum at present but subject to review shortly, and A.P.T. Grade I, £610-£765 p.a. Applicants for appointment (a) must have passed the final examination of the R.I.C.S.

Housing accommodation may be made available if required.

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts.

Applications stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than MONDAY, 1st JUNE, 1959, in envelopes endorsed "Appointment of ——."

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
6th May, 1959.

## METROPOLITAN
BOROUGH OF LAMBETH.

CHIEF ASSISTANT ARCHITECT.
Salary £1,385-£1,620 p.a.

Applications are invited for this appointment in the Housing Department. Candidates must be full members of the Royal Institute of British Architects or hold an equivalent qualification. The officer appointed will be responsible for the design of municipal housing schemes, including multi-storey flats; the conversion and improvement of existing properties and the supervision of building contracts. Candidates should have had good experience of both technical and administrative work of an architectural office. Superannuation scheme; canteen; alternative Saturdays off.

Application forms from Town Clerk (Ref. 143d), Lambeth Town Hall, Brixton-hill, S.W.2. Closing date: 6th JUNE, 1959.

JOHN E. FISHWICK,
Town Clerk.

## BOROUGH OF BANBURY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ENGINEERING ASSISTANT—Grade A.P.T. Special (at present £750-£1,030 per annum).

(b) ARCHITECTURAL ASSISTANT—Grade A.P.T. II (£765-£880 per annum).

The starting salary in each case may be fixed within the grade according to qualifications and experience.

The above appointments will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, the passing of a medical examination and one month's notice on either side. Housing accommodation will be offered to successful married applicants.

Applications, stating age, present salary, qualifications and experience, including full particulars of present and previous appointments, together with the names and addresses of two persons to whom reference can be made, should be received by the undersigned not later than the 25th MAY, 1959.

FREDERICK G. BOYS,
Town Clerk.

Municipal Buildings,
Banbury.
4th May, 1959.

## ROYAL COLLEGE OF ART.

CASTING SHOP CRAFTSMAN/DEMONSTRATOR required from September for School of Sculpture, to carry out and demonstrate piece moulding, waste moulding, jelly moulding, cement casting and bronze founding. Salary within scale £655 to £945 p.a., according to qualifications and experience. Pensionable appointment under Local Government superannuation scheme. Further particulars and application form returnable by 30th MAY, may be obtained from the Registrar, Royal College of Art, Exhibition-road, S.W.7.

## BOROUGH OF KING'S LYNN.

HOUSING ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of JUNIOR ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. I (£610-£765 per annum).

Candidates should be at intermediate standard and able to assist in the preparation of Bills of Quantities and Estimates, valuation of works in progress and settlement of Final Accounts.

The appointment will be subject to the National Scheme of Conditions of Service, is superannuable, and is subject to medical examination.

Consideration will be given to the provision of housing accommodation.

Applications, giving age and full particulars of qualifications and previous appointments, and naming two referees, should be addressed to G. Holmes, A.R.I.B.A., Housing Architect, Clifton House, Queen-street, King's Lynn, not later than MONDAY, 27th MAY, 1959.

Canvassing disqualifies.

E. W. GOCHER,
Town Clerk.

Town Hall,
King's Lynn,
Norfolk.

## BOROUGH OF WALTHAMSTOW.

ASSISTANT CLERK OF WORKS (TEMPORARY).

Applications are invited for the above appointment in the Borough Architect, Engineer and Surveyor's Department (F. G. Southgate, A.R.I.B.A., M.I.Mun.E., A.M.T.P.I.), at a salary in accordance with Grade A.P.T. I (£575 to £725 per annum, exclusive of London Weighting) with the commencing salary according to experience.

Applicants should have a thorough knowledge of the building trade and be capable of supervising large housing contracts.

Applications, stating age, experience and present occupation, together with the names of two referees, one of whom should be the present or former employer, are to be received by the undersigned not later than noon on FRIDAY, 29th MAY, 1959, endorsed "Assistant Clerk of Works."

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow,
E.17.
11th May, 1959.

## COUNTY BOROUGH OF BOOTLE.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of TWO ARCHITECTURAL ASSISTANTS on Grade A.P.T. IV, £1,025 to £1,175 per annum.

Preference will be given to those having experience in the design and planning of Schools.

Application forms, obtainable from the Borough Surveyor, Town Hall, Bootle 20, Lancs., are returnable by FRIDAY, 29th MAY, 1959.

By Order,
HAROLD PARTINGTON,
Town Clerk.

## CITY AND COUNTY OF THE CITY OF EXETER.

CITY ARCHITECT'S DEPARTMENT.

Vacancy on the established staff for SENIOR ASSISTANT ARCHITECT. Salary within Special Grade (£750 to £1,030). This grade is at present under review. The provision of housing accommodation will be considered. The successful applicant's removal expenses will be paid.

Applicants must have passed Parts I and II of the R.I.B.A. Final Examination or Special Final or equivalent, and the entry point on the grade will depend on experience.

Preference will be given to those with experience in the design and construction of Civic Buildings.

The appointment is subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts. The successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience and earliest possible date when available, should be sent to the City Architect, Municipal Offices, Exeter, not later than the 30th MAY, 1959.

## BOROUGH OF ROYAL TUNBRIDGE WELLS.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited from persons with the necessary training and experience to supervise the construction of houses and flats, by contract, at a salary between £850 and £950 per annum. Housing accommodation will be provided.

The appointment is subject to the National Scheme of Conditions of Service and to the Corporation's Superannuation Scheme and the successful applicant will be required to undergo a medical examination.

Written applications, giving full particulars of age, training, qualifications, experience and the names and addresses of two referees must be submitted to the Borough Surveyor and Waterworks Engineer not later than the 25th MAY, 1959.

M. J. H. GIRLING,
Town Clerk.

Town Hall,
Tunbridge Wells.

## BRITISH RAILWAYS

JUNIOR BUILDING SURVEYOR

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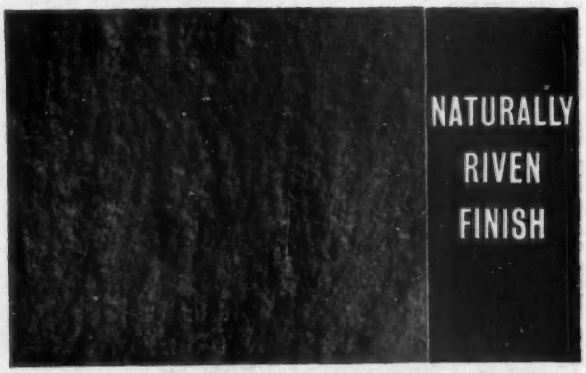


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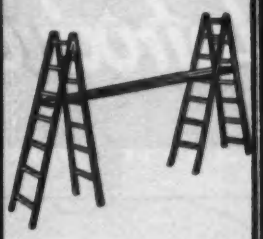

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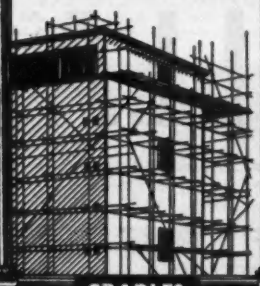

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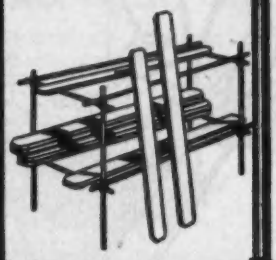

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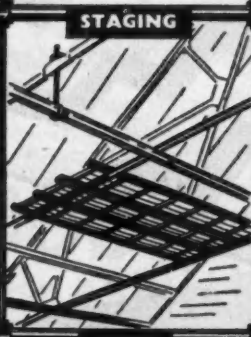

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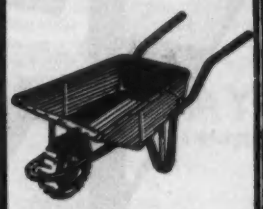

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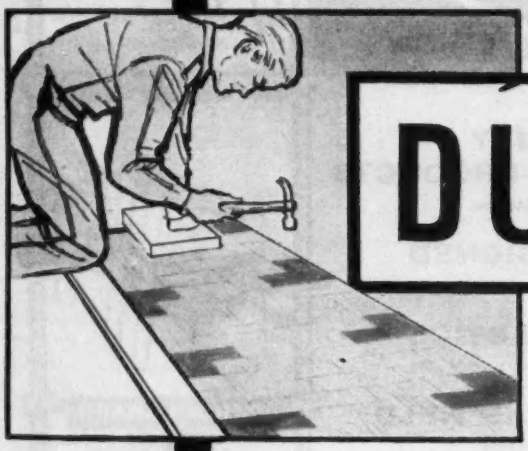

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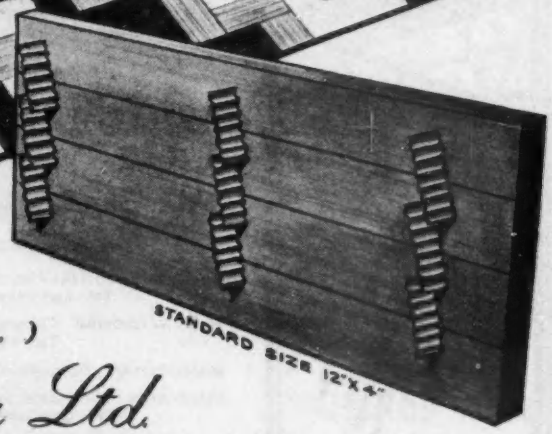

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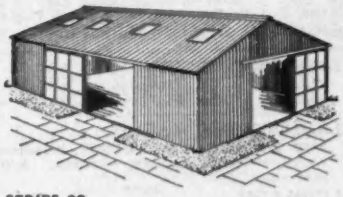

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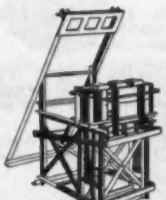

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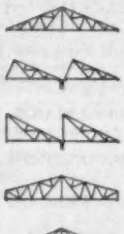

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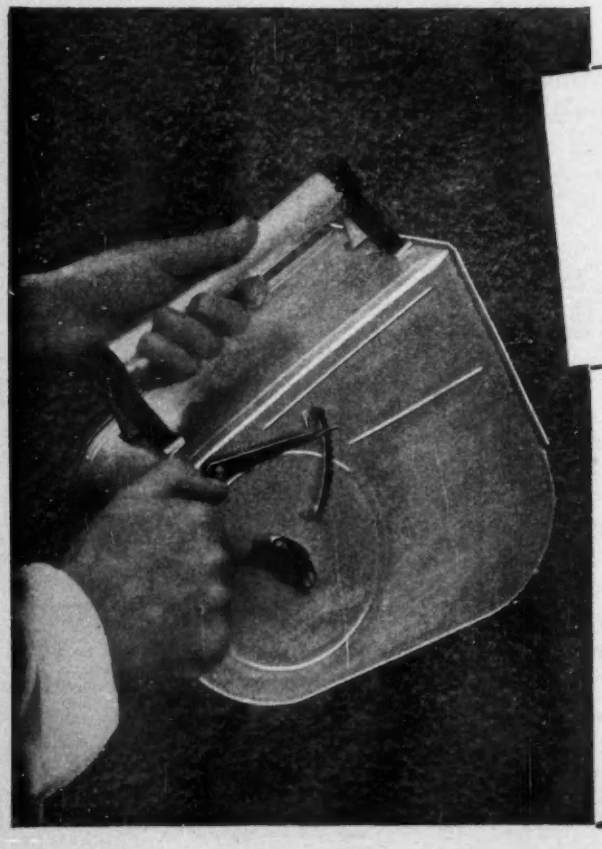

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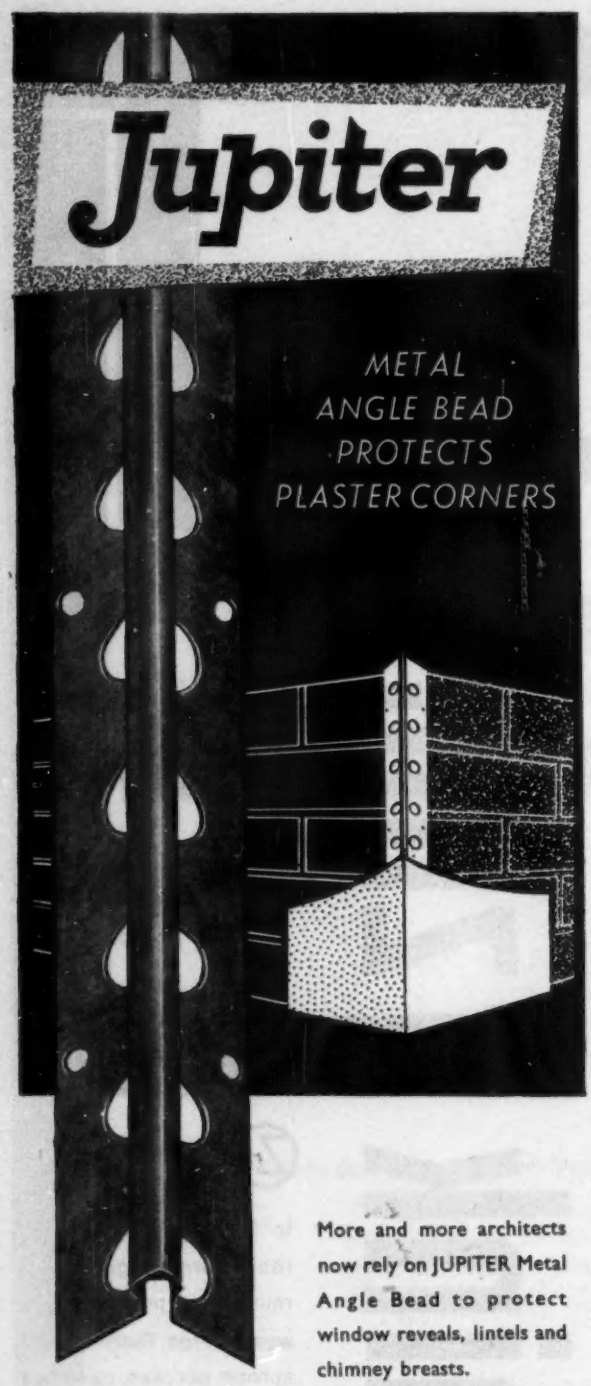


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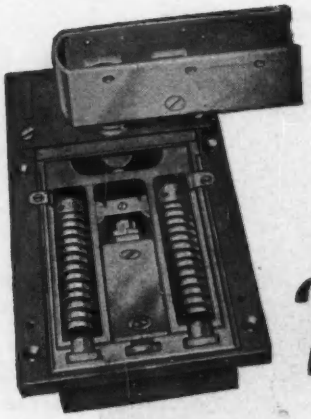

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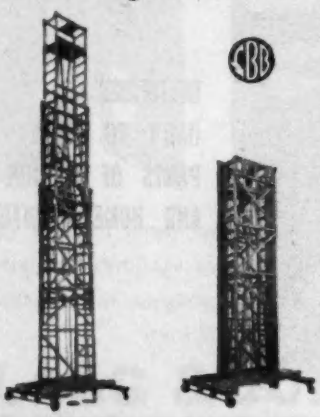

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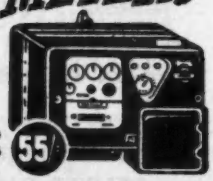


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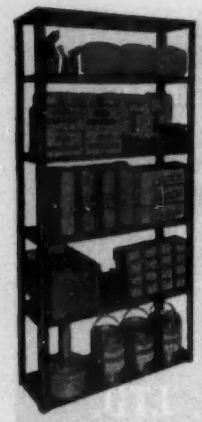

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PROGRESSIVE ORGANISATION Requires ASSISTANT QUANTITY SURVEYOR experienced in taking-off and preparing Bills of Quantities, Variations, writing Specifications, etc.—Write stating age, qualifications, experience and salary required to Chief Surveyor, GREGORY HOUSING, Ltd., 21 Farncombe-road, Worthing.

ASSISTANT QUANTITY SURVEYOR Required for Railway Civil Engineer's office at King's Cross. Applicants should be CHARTERED SURVEYORS experienced in taking-off and preparing Bills of Quantities, Specifications and Estimates for Architectural work and in measuring and adjusting variations. Commencing salary £943 per annum. Concessionary rail travel, permanency with membership of superannuation scheme to suitable applicant after probationary period.—Apply in writing giving particulars of age, experience and qualifications possessed to Chief Civil Engineer, BRITISH RAILWAYS, King's Cross Station, London, N.1.

ASSISTANT QUANTITY SURVEYOR Required for British Transport Hotels and Catering Services, Architect's Department of the Chief Works Officer, with location in London. Applicants should preferably have passed the first examination of the Royal Institute of Chartered Surveyors or equivalent and have experience in squaring dimensions, abstracting and simple billing, estimating and specification work. Commencing salary within the range £531-£763.—Apply in writing, giving full personal details, to the Officer for Personnel, BRITISH TRANSPORT HOTELS AND CATERING SERVICES, St. Pancras Chambers, London, N.W.1.

JUNIOR QUANTITY SURVEYOR Required in London Office with varied practice capable of Working-up, measuring and junior Taking-off. Suit Intermediate Standard pupil, time off for studies if required.—Reply stating age, experience and salary required, Box 804, "The Builder."

EXPERIENCED QUANTITY SURVEYOR Required for Sites in Berkshire area.—Apply stating age, experience and salary required, to Director, W. E. CHIVERS & SONS Ltd., Devizes, Wilts. Telephone Devizes 121.

**LEADING London Contractors have a limited number of vacancies for SENIOR QUANTITY SURVEYORS in (a) London; (b) The Provinces, where accommodation will be provided, if necessary. Only men with a first-class record should apply, since the highest qualifications are required. Successful applicants will be offered salaries in the region of £2,000 per annum, plus commission and car allowance, and after a qualifying period opportunity will be given to join the Company's Superannuation Scheme.—Apply in confidence, stating age, previous experience and employers to Chief Personnel Officer, Box 879, "The Builder."**

**WELL-KNOWN Building and Civil Engineering Contractors Require resident QUANTITY SURVEYORS for Contracts in London. The successful applicants will be offered attractive commencing salaries, the positions being permanent and pensionable. Existing holiday arrangements will be honoured. —Apply in confidence, stating age, previous experience and employers to Box 880, "The Builder."**

QUANTITY SURVEYORS, recently qualified or having passed R.I.C.S. Intermediate Required in professional office in West Riding of Yorkshire. The positions are permanent and pensionable with opportunities for paid overtime.—Write stating age, experience and salary required to Box 831, "The Builder."

POWELL & LARGE, Chartered Quantity Surveyors of Broadgate House, Coventry, Require one SENIOR and one JUNIOR ASSISTANT.

ASSISTANT QUANTITY SURVEYOR Required by progressive, medium-sized Building Contractors for their N.W. London office. Valuations, measurement of all trades and agreement of subcontractors' accounts. Permanent and progressive position for right applicant.—Apply in writing, stating age, experience and salary expected.—Box 857, "The Builder."

GERRARDS of Swinton

**QUANTITY SURVEYORS**

required for site measuring, interim certificates, and preparation of final accounts. Competent to work on own initiative. Good prospects for permanency with entry to Pension and Bonus Schemes. Applications in writing, giving age, qualifications, experience and salary required to:—

**J. GERRARD & SONS LTD.**
**SWINTON, MANCHESTER**

ASSISTANT QUANTITY SURVEYOR Required for Norwich office of Chartered Quantity Surveyor, approaching Final Standard with experience of site measuring. Taking-off under supervision and capable of controlling working up staff.—State age, details of experience and salary required to Box 740, "The Builder."

QUALIFIED QUANTITY SURVEYOR Required as assistant to Partner in professional office in Manchester. Conditions of work are a five-day week and non-contributory pension scheme and the successful applicant, who must be a person of integrity, capable of management and prepared to accept responsibility, will hold the possibility of a junior partnership at a later date. An initial salary is offered of £900 per annum, in addition to which will be normal car and travelling allowances.—Reply in writing, giving complete information of experience and age, to Box 741, "The Builder."

QUANTITY SURVEYOR Required to take full responsibility for Building Works, in private Office, Huddersfield District.—Box 742, "The Builder."

QUANTITY SURVEYOR Required for new Office in central Manchester. Intermediate/final standard. Excellent opportunity for advancement.—Write stating age, experience and salary required to Box 743, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required by Builders and Contractors, Esher area.—Write giving details of experience, age, salary required to Box 744, "The Builder."

**MEASURING SURVEYORS**
required for staff of
LONDON CONTRACTOR'S
HEAD OFFICE

Permanent position with bonus and Pension Schemes. Good salary which will be reviewed regularly. Age 25/35. Applications in writing stating age and experience to

**Box No. 745, "The Builder"**

COST AND BONUS SURVEYOR Required by N.W. London Building and Civil Engineering Contractors for work on varied and interesting contracts. Energy and drive will be placed before qualifications, with excellent prospects for the right man.—Write to HOWARD FARROW Ltd., Ref. D.J.R., Bank Buildings, Russell Parade, Golders Green-road, N.W.11.

**COST AND BONUS SURVEYOR, aged 25-32, Required for interesting work on contracts in the Greater London area, by large London Building Contractors. Knowledge of work-study an advantage. Permanent and progressive position with Pension Scheme and other attractive conditions.—BERNARD SUNLEY & SONS (P.D.), 25 Berkeley-square, W.1.**

**SENIOR SURVEYOR Required for West of England Building Contractors. Must have wide experience of large scale contracting of high quality. Be accustomed to preparing interim Valuations and Final Accounts for jobs up to £300,000.—Applications in confidence with full details of age, experience, technical education and previous positions held, to Box 746, "The Builder."**

EXPERIENCED BUILDING MAINTENANCE SURVEYOR Required in London Office of UNITED DAIRIES, Ltd.—Applications to be made to Chief Architect, 31 St. Petersburgh-place, Bayswater, W.2, stating age, previous experience and salary required.

INCREASED COST SURVEYOR or ASSISTANT urgently Required, with knowledge of Builder's office routine.—Apply Chief Quantity Surveyor, HOWARD FARROW, Ltd., Golders Green-road, N.W.11.

ROBERT M. DOUGLAS (CONTRACTORS), Ltd. Require PRODUCTION AND BONUS SURVEYORS experienced in General Civil Engineering and Building works.—Apply in writing, stating age, qualifications, experience and salary required, to 395 George-road, Birmingham, 23.

MEASURING SURVEYOR Required aged 20/25, experienced with sub-contractors' accounts, working-up and assisting with final accounts and Interim Certificates. Some knowledge of estimating and taking-off an advantage. Must be car driver with licence.—Apply in writing, PROWTING, Ltd., 127 High-street, Ruislip, Middlesex, stating age, experience and salary required.

SITE SURVEYOR Required by Civil Engineering Contractors for interesting Contracts in Liverpool, with prospects of permanency within Organisation. Must be thoroughly cost-minded and capable of agreeing all Variations.—Apply Box 695, "The Builder," stating age, experience and salary required.

YOUNG, progressive, Mansfield firm of Estate Developers and House Builders Require BUILDING SURVEYOR ENGINEER capable of Surveying and plotting building estates, producing layout plans, levels and sections for the Local Authorities, dealing with Road Contractors, Councils, Gas, Electricity, and Water Engineers, etc. Must be a good draughtsman capable of preparing plans of individual houses, etc., and interviewing clients if necessary. This is a new and rapidly developing section of our business. Only men with patience, endurance, foresight and an adventurous disposition need apply. All applications will be acknowledged. Give age, experience, salary required.—Box 707, "The Builder."

MEASURING SURVEYOR Required for interesting and varied work. L.I.O.B. or other qualifications an advantage.—Write stating age, experience and salary required to G. W. Rosser, Esq., C. P. ROBERTS & CO., Ltd., 31 High Holborn, W.C.1.

SURVEYOR/TAKER-OFF Required for London office Reinforced Concrete and Hollow Tile Flooring specialists. Must be fully competent and able to draft and negotiate final accounts. Pension scheme; 5-day week.—Write fully details of experience, age and salary required, to Box 979, "The Builder."

MEASURING SURVEYORS Required, capable of handling contracts from £5,000-£250,000; must be experienced in Taking-off and ordering materials from Bills of Quantities, interim certificates and final accounts.—Apply in writing RICHARDSON, Herbert House, Slade Green, Erith, Kent.

Experienced

**SURVEYOR-ESTIMATOR**

required for Small-Contracts Division of London Building Contractors. Able to handle contracts, up to £25,000, from enquiry to final account with minimum supervision, including preparation own quantities. Excellent opportunity for capable and enthusiastic surveyor age 27-35 to advance within progressive organisation. Good salary, Pension Scheme, and other attractive conditions. Apply—Personnel Director

**BERNARD SUNLEY & SONS LTD.,**
25, Berkeley Square, W.1.

BUILDER'S SURVEYOR (25-35) Required; must have sound knowledge of site measuring, variations, interim valuations, final accounts, etc.; pension scheme.—Apply in writing only giving full details of experience, age and salary desired to BRAZIER & SON, LIMITED, 303-305 Portswood-road, Southampton.

SENIOR SURVEYOR, aged 27-35, Required by London Building Contractors for Contracts in the Greater London area. Excellent opportunity for keen experienced Surveyor to progress within expanding organisation. Permanent position with Pension Scheme and other attractive conditions.—BERNARD SUNLEY & SONS (P.D.), 25 Berkeley-square, W.1.

MANCHESTER CHARTERED QUANTITY SURVEYORS Require competent and reliable SITE SURVEYOR for Cumberland work for two-year term. Appropriate salary and allowances by negotiation.—Box 785, "The Builder."

**SURVEYOR, aged 25 to 30, Required by London Contractors handling large-scale Industrial Developments throughout the United Kingdom. H.N.C. standard, willing to travel, good personality and adaptability essential. Contracts £50,000 to £1M. Pension scheme, good prospects of promotion. Full details to Box 779, "The Builder."**

BUILDING SURVEYOR (PRACTICAL) with good all round knowledge of Quantities, Taking-off drawings, Variations and Final Accounts, for our London office.—Apply in writing with full details of previous experience and salary required to J. B. ROSE & CO., Ltd., 450 Edgware-road, London, W.2.

PLUMBING SURVEYOR/SUPERVISOR Required by London Plumbing Contractors, to take full charge of small works dept. (contracts up to £750) from estimating to final account stage without supervision. Holidays honoured; Saturday rota; superannuation scheme available.—Write stating age, experience, salary required.—Box 823, "The Builder."

MEASURING SURVEYOR Required, capable of working on own initiative and handling contracts from start to finish.—Write stating age, experience and salary to Box 858, "The Builder."

DUE to expansion and reorganisation, a medium-sized Kent building company requires: (A) BUILDING SURVEYOR, capable of dealing with interim and final accounts up to £100,000 and subcontractors' accounts. (B) GENERAL FOREMAN for housing contract expected to last two years. Must be capable of ordering own materials and co-ordinating sub-contractors. (C) JOBBING WORKS FOREMAN for small branch on Kent/Sussex border. Ideal post for someone wanting to work up business on his own but lacking capital to start. Must be prepared to live locally.—Apply, giving experience, salary expected, and when free, to Managing Director, Box 855, "The Builder."

QUANTITY Surveyors Require ASSISTANTS for work in connection with Taking-off and Final Accounts in Plymouth and Cornwall.—Experience, salary required, etc., to Box 697, "The Builder."

APPLICATIONS are invited for positions of ASSISTANT and JUNIOR SURVEYOR for old-established firm of West End Builders and Decorators. Estimating and management experience desirable.—Write giving full particulars of experience and salary required to the Secretary, TROLLOPE & SONS (LONDON), Ltd., West Halkin-street, London, S.W.1.

ASSISTANT BUILDING SURVEYOR Required for preparation of Final Accounts and interim certificates, etc., able to work with minimum supervision. Position permanent.—Apply in writing stating age, experience and salary required, to BOSWORTH & CO. (CONTRACTORS), Ltd., Quorn-road, Nottingham.

CHARTERED QUANTITY SURVEYORS with office in Holborn area Require ASSISTANT, studying for Final R.I.C.S., for taking-off and site measurement. State experience and salary required. —Box 747, "The Builder."

ASSISTANT BUILDER'S SURVEYOR Required. Able to take off quantities from plan and specification and control small works, private housing, etc. Permanent position with good prospects for keen young man.—Reply, with details of technical training, experience and salary required, to Managing Director, J. T. PARSONS & SON, Ltd., Westbury, Wilts.

ASSISTANT SURVEYOR for Building Contractor's Small Works Department, experienced in Taking-off from Drawings and Specifications and Site Measuring.—Apply in writing, stating age, experience and salary required to GRACE & MARSH, Ltd., New Bridge Works, Waddon, Croydon.

ASSISTANT SURVEYOR Required for Taking-off quantities, ordering materials and progressing schedules.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

QUANTITY SURVEYOR'S ASSISTANT Required by old established building contractors; H.N.C. standard or equivalent; age 20-24; driver preferred. —J. R. DEACON Ltd., Lombard-street, Lichfield, Staffs.

MECHANICAL/ELECTRICAL ASSISTANT Required by Quantity Surveyor's London Office for site measuring and negotiating final accounts. Reasonable knowledge all services including air conditioning necessary.—Write, state age, experience in this field and salary range, Box 808, "The Builder."

QUANTITY SURVEYORS Require SENIOR ASSISTANT for Taking-off and account work. Salary according to age and experience. Five-day week.—SILK & FRAZIER, 35 Portland-road, Birmingham, 16.

ASSISTANT Required to Surveyor of large Company with headquarters in Central London. He will deal with the maintenance of offices and commercial premises throughout the country and some travelling will therefore be involved. He may also be required to give general assistance on other professional matters. Candidates should have passed RICS Final in sub division IIIB, preferably be 25-28 years of age, and have good experience in private practice.—Write Box B 191 LPE Romano House, 399-401, Strand, London, W.C.2.

ASSISTANT SURVEYOR. TOM. PETTIFER (CONTRACTORS) Ltd., 80 Clopton-street, Stratford-upon-Avon; for estimating from B.Q. and Plans and Specifications, Progress Measurements and preparation of Interim and Final Accounts.—Write stating salary required.

ASSISTANT BUILDING SURVEYOR Required for expanding branch office in Cambridge. We can probably assist in finding accommodation. Varied and interesting work with a progressive medium-sized company.—Write stating age, experience and salary required. Box 883, "The Builder."

A VACANCY has arisen for an ASSISTANT SURVEYOR to work under a Full Surveyor in the Minor Works and Alterations Department of a large London Building and Civil Engineering Contractors.—Write giving full particulars and salary required to Box 832, "The Builder."

BOY Required as TRAINEE in London Chartered Quantity Surveyor's Office. Commencing salary £3 to £6 per week according to previous experience, if any.—Apply WHEELER, RUMBLE & PARTNERS, 16 Grenville-street, W.C.1. Terminus 1107.

CITY OF LONDON Insurance Loss Adjustors Require JUNIOR SURVEYOR/ESTIMATOR, 25-35 years. Will train suitable applicant for interesting permanent position to ultimately work on own initiative. Apply, stating age, education, experience and salary.—Box 809, "The Builder."

YOUNG MAN Required as ASSISTANT TO CONTRACTS SURVEYOR for general duties on small and medium contracts.—'Phone for appointment: SLO 5189.

EXCELLENT OPENING in expanding Wall and Floor Tiling business for young man aged 15-17, with good education. Some experience in general surveying work an asset, but not essential.—Box 790, "The Builder."

EAGLE CONSTRUCTION CO., Ltd., Sanderstead, Surrey, Require a TRAINEE in their Surveyor's Dept. Good prospects.—Write age, experience, salary required.

JUNIOR ASSISTANT for small firm Quantity Surveyors; progressive position in busy office, West End. State age, experience and salary required.—Box 859, "The Builder."

JUNIOR BUILDING SURVEYOR Required to assist in preparation of estimates and accounts, etc. —Apply in writing giving full details of experience and salary required (Thames Ditton, Surrey Area), Box 833, "The Builder."

JUNIOR ASSISTANT Required in Quantity Surveyor's Office, Holborn district.—Reply with details of age, education, any previous experience and salary required to Box 834, "The Builder."

BUILDER'S TAKER-OFF/DRAUGHTSMAN Required by old-established East London Company. Good salary. Profit sharing and pension schemes.—Box 713, "The Builder."

THE HELICAL BAR & ENGINEERING COMPANY LTD., 82 Victoria-street, S.W.1, Require the following staff for their London office.—TAKER-OFF to prepare Bills of Quantities for reinforced concrete work. ESTIMATOR for R.C. Structures, Hollow Tile floors, etc. Five-day week. Pension scheme. Luncheon vouchers given.—Apply in writing giving brief details of experience and salary required.

COMPETENT TAKER-OFF Required in London Chartered Quantity Surveyors' office. Apply stating age, experience, qualifications and salary required to Box 957, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers.—Write stating age, experience and salary required, to Box 991, "The Builder."

TAKER-OFF, preferably qualified, Required by F. S. SNOW & PARTNERS. 5-day week, luncheon vouchers, superannuation.—Apply in writing to 87 Charing Cross-road, London, W.C.2, stating age, experience, qualifications and salary required.

HIGH SALARIES and scope for advancement are offered to three ASSISTANT TAKERS-OFF. Technical ability, speed, initiative and adaptability are essential qualities. All applications treated in confidence.—Replies, giving details of age and experience, to Box 748, "The Builder."

TAKER-OFF with at least three years' taking-off experience Required by small expanding firm of West End Chartered Quantity Surveyors.—Reply stating age, experience and salary required to Box 749, "The Builder."

TAKER-OFF Required for Quantity Surveyor's office, Kings Cross Area, intermediate/final standard. Good prospects for experience and advancement in an expanding office.—Write stating age, experience and salary required to Box 750, "The Builder."

TAKER-OFF Required. R.I.C.S. Intermediate standard, in Reading Sub-Office of Chartered Quantity Surveyors, £800 p.a.—Box 751, "The Builder."

LONDON Chartered Quantity Surveyors Require for permanent staff (a) TAKER-OFF; (b) MEASURING SURVEYOR, for Final Accounts.—Write stating age, experience and salary required to Box 993, "The Builder."

TAKER-OF, SENIOR, Required for City Office of Chartered Quantity Surveyors.—Box 786, "The Builder."

TAKER-OFF approaching Final R.I.C.S. standard Required for West End office by Chartered Quantity Surveyors dealing also with overseas contracts.—Write stating age, experience and salary required to Box 997, "The Builder."

TAKER-OFF and JUNIOR TAKER-OFF Required immediately in private practice. Must be Corporate Member and Probationer respectively of the R.I.C.S.—E. G. DALE, F.R.I.C.S., F.I.Arb., Chartered Quantity Surveyor, Empire House, 64 St Mary-street, Cardiff.

WANTED for medium size office, S.W.1, JUNIOR TAKER-OFF, age 22-25, also qualified man, 25 or over.—Luncheon vouchers. State salary required.—Box 795, "The Builder."

TAKER-OFF Required by LESLIE G. DIGHT, F.R.I.C.S., 35 Portland-place, W.1. Salary about £900 p.a. Reply in handwriting stating age and experience.

TAKER-OFF, trained in Northern Method of Measurement, Required by London Chartered Quantity Surveyor. Salary about £900 p.a.—Reply stating age and experience to Box 860, "The Builder."

TAKER-OFF, qualified and experienced (A.R.I.C.S. preferred), Required by busy, old-established London firm of Chartered Quantity Surveyors. Good commencing salary; overtime available.—Write with full details to Box 835, "The Builder."

EXPERIENCED WORKER-UP Required by Westminster firm of Quantity Surveyors. Five-day week and luncheon vouchers. Good prospects and opportunities.—Write stating experience and salary required. Box 975, "The Builder."

CAPABLE WORKER-UP Required in London Chartered Quantity Surveyors' office. Appointment with prospects of advancement according to capability. Apply in writing stating age, office and examination experience and salary required to Box 956, "The Builder."

WORKER-UP, with three to five years' professional experience, Required by F. S. SNOW & PARTNERS. 5-day week, luncheon vouchers, superannuation.—Apply in writing to 87 Charing Cross-road, London, W.C.2, stating age, experience, qualifications and salary required.

WORKER-UP Required by medium-size progressive West End Chartered Quantity Surveyors engaged on U.K. and West Indies contracts. Prospects of advancement according to capability.—Write giving experience, and salary required, to Box 986, "The Builder."

JUNIOR WORKERS-UP, desiring increased salaries and good promotional prospects, should write, in confidence, giving full particulars of age and experience to Box 752, "The Builder."

WORKER-UP Required for expanding Quantity Surveyor's Office, Kings Cross. Experienced man preferred, to take senior position.—Write stating age, experience and salary required to Box 753, "The Builder."

WORKER-UP Required in Quantity Surveyor's department of major London Brewery Company. Please state age, experience, salary required and when free.—Box 698, "The Builder."

JUNIOR WORKER-UP Required for London office of national firm of specialist sub-contractors, age 18/20. Excellent opportunities for advancement.—Write stating experience and initial salary required to Box 848, "The Builder."

WORKER-UP, experienced assistant, Required by busy, old-established London firm of Chartered Quantity Surveyors. Good commencing salary; overtime available.—Write with full details to Box 836, "The Builder."

TECHNICIAN Required by the ATOMIC WEAPONS RESEARCH ESTABLISHMENT, Foulness, Essex. To supervise the Minor Term Contractor on new works, alterations and maintenance of buildings and ancillary works. To supervise various Lump Sum Contracts on buildings and civil engineering works; to control directly employed labour engaged on building maintenance, etc., and to estimate and measure, preferably in conjunction with the W.D. Schedule of Prices for Works Services. A recognised building trades apprenticeship is required and considerable experience in the control of industrial labour. Knowledge of surveying and levelling is necessary and possession of O.N.C. (Building) or equivalent qualification may be an advantage. Salary: £905-£1,085. Contributory Superannuation scheme. A house or substantial assistance with house purchase will become available for married officers living beyond daily travelling distance.—Postcards for application forms to the Senior Recruitment Officer at ATOMIC WEAPONS RESEARCH ESTABLISHMENT, Aldermaston, Berks. Please quote ref. 2208/118.

MYTON LIMITED (a member of the Taylor Woodrow Group) Require a SENIOR PLANNING ENGINEER, with experience in planning multi-storey buildings with deep foundations. Progressive appointment with Pension Scheme.—Replies, giving full details of experience, etc., in confidence, marking envelope "Application" to the Director and General Manager, MYTON LIMITED, "Western House," Western-avenue, Ealing, London, W.5.

**CONSTRUCTION ENGINEER**

WILSON LOVATT & SONS, Ltd., have a vacancy in the Midlands Area for a fully experienced young ENGINEER for Setting out Building and Civil Engineering Work. This position will be progressive to the right man. Applications will be treated in confidence and should state age, training, experience and salary expected and addressed to Clarence-street, Wolverhampton.

ENGINEER OR SURVEYOR Required for Taking-off, and preparation of Bills of Quantities in connection with Estate Roads and Sewers. Pension scheme in operation after qualifying period.—Write to H. C. JANES, Ltd., 183 High Town-road, Luton.

CLERK OF WORKS Required to supervise a mixed housing development scheme for the City Corporation in the Old Kent-road including multi-storey flat blocks. Contract to start in August, probable duration 3 years. Salary £985 per annum.—Reply stating experience to SIR LANCELOT KEAY, BASIL G. DUCKETT & PARTNERS, Architects, 22 Oldbury-place, London, W.1.

CLERK OF WORKS Required for Laboratory project near Manchester. Commencing July, 1959, duration approximately 15 months. Previous experience of laboratory work essential. Salary by arrangement. Interviews London or Manchester.—Write Box 909, "The Builder."

# ESTIMATOR

For Small Works Department of London West-End Builder. Contracts up to £8,000. Age 25/35. Able to take off own quantities. Excellent prospects for the right man. Non-contributory Pension Scheme. State experience and salary range contemplated.

**Box No. 699, "The Builder"**

JOINERY ESTIMATOR. An experienced Joinery Estimator Required to handle building and housing estimating work.—Write full particulars to RUTHERFORD, GEAKE & Co., Ltd., Hanworth Trading Estate, Feltham, Middlesex.

ESTIMATOR/SURVEYOR Required, experienced in small works and medium-sized contracts.—Full details of experience, age, etc., to C. JENNER & SON, Ltd., 11 North-street, Ashford, Kent.

ASSISTANT ESTIMATOR/SURVEYOR Required by an organisation dealing with a large number of high-class flats in the Greater London area. The post is pensionable and offers scope to a young man with initiative. Car driver essential. Please send full details of experience and salary required, to Box 774, "The Builder."

ESTIMATOR AND SURVEYOR Required to work as Assistant to Chief Estimator and Surveyor of medium-sized building and civil engineering company. Capable of taking complete charge of jobbing work. Accuracy and willingness to work hard more important than experience. S.E. England.—Box 754, "The Builder."

**COURTNEY, POPE LTD.**

require

**EXPERIENCED SHOPFITTING ESTIMATOR**

Applications, with full details of experience, will be treated in strictest confidence. Write in first instance to

**Ref: AJ/E**

BUILDER'S ASSISTANT ESTIMATOR SURVEYOR Required for West Herts Contractors.—Please apply stating age, experience, and salary required, to Box 780, "The Builder."

BUILDER'S ESTIMATOR Required. B.O.Q's. Taking-off, measuring, final accounts up to £15,000 only. Salary £1,200.—Write stating experience, age, accomplishments. BUCKINGHAM & SONS, Ltd., Vivian-avenue, Hendon, N.W.4.

ESTIMATOR Required by Exhibition Contractors. Age 25-35. Salary £800-£900 per annum, according to experience. Pension scheme. Existing holiday arrangements met.—Write "Confidential," BECK & POLLITZER CONTRACTS, Ltd., Universal House, Southwark Bridge, S.E.1.

**LEADING BUILDING CONTRACTORS**

have a vacancy for a well experienced

**ESTIMATOR**

for building works in the London area. The position, after a satisfactory trial period, can be considered as permanent and pensionable and offers real opportunity for a well trained conscientious man.

Applications which will be treated in the strictest confidence, should state age, experience in detail, and indication of salary required to :—

**Box 805 "The Builder"**

ESTIMATOR Required for Building Department of THE DEMOLITION & CONSTRUCTION CO., Ltd.—Please apply in writing to the Building Department, Mitcham-road, Croydon, Surrey, stating experience, age, and salary required.

TRAINEE ESTIMATOR. Required for Builders' Merchants. Must have some knowledge of light side of trade and be quick at figures.—Write stating age, experience and salary required to ALFRED GOSLETT AND COMPANY LIMITED, 127-131 Charing Cross-road, W.C.2.

## SURVEYOR/ESTIMATOR

urgently required for Small Works Department. Applicant must be fully experienced in handling works from enquiry stage, site measuring to final accounts. The position offered is permanent and progressive. Suitable transport will be made available. Please write giving full particulars of past experience, age and salary required to **Kyle, Stewart (Contractors) Ltd., Ardshiel House Empire Way, Wembley, Middx.**

PLASTERING Specialists have a vacancy for ASSISTANT ESTIMATOR and MEASURING SURVEYOR—resident in London. Contributory Pension Scheme operating.—Apply stating age, experience and salary required to PLASTERING, Ltd., Concanon-road, Acre-lane, Brixton, London, S.W.2.

ASSISTANT ESTIMATOR/SURVEYOR Required by old-established Islington Building Contractors.—Write stating age, experience, salary expected, etc., to Box 981, "The Builder."

Old established Building and Civil Engineering Contractors require two

## SENIOR BUILDING ESTIMATORS

experienced in pricing all types of construction up to £1m. Salary range £1,500, good conditions, superannuation.

Applications should contain full details past experience and connections in chronological order and be addressed to

**Box 837 "The Builder."**

(All replies will be treated in confidence, present staff advised.)

HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN), LTD.

require a competent

ESTIMATOR

for their Joinery Works. The position is permanent, with staff bonus and pension schemes. Applications stating age, past experience, and salary required should be sent in strict confidence to the Joinery Manager, 258 Grays Inn-road, London, W.C.1.

## SENIOR ESTIMATOR (BUILDING)

**WILSON LOVATT & SONS Ltd.,**

Invite applications for a Senior Estimator suitably trained possessing H.N.C., F.I.B.E., or L.I.O.B. qualifications and having at least five years uninterrupted experience in estimating for all types of building work. The appointment is permanent in the Head Office of an old established Company operating nationally. Applications will be treated in strict confidence and should state education, training, qualifications, experience, age and an indication of salary expected, addressed to **Clarence Street, Wolverhampton.**

EXPERIENCED ESTIMATOR Required by long established building firm in the South-West Country. Contracts of all sizes and types handled.—Write in first instance to box number giving full particulars and salary required. Accommodation available.—Box 882, "The Builder."

ESTIMATOR SUPERVISOR Required for Contracts, alterations and repairs in S.W.16 area.—Box 838, "The Builder."

## SENIOR ESTIMATOR

First class man required by London Building Contractor for tenders up to £1,000,000 in value. Age 35–45 years. Remuneration around £1,500 p.a. according to ability. Details to

**Box 824 "THE BUILDER"**

## JOHN LAING AND SON LIMITED

have vacancies in their

ESTIMATING DEPARTMENT

at Head Office for

## ASSISTANTS

The duties will entail issuing enquiries for Materials and Sub-Contractors' Quotations. Applicants should be between 25 and 35 years of age and be familiar with, and able to interpret, Bill of Quantities and Contract Conditions. Previous experience in ordering an advantage. 5 day week. Canteen and Sports Club facilities. Apply in writing stating age, qualifications and experience to **Personnel Manager (E.D.3.), John Laing and Son Limited, London, N.W.7.**

CONTRACTS MANAGER Required for flat and housing estates, borders of Berkshire, Middlesex and Surrey. Permanent position. Write stating age, salary and experience.—Box 977, "The Builder."

MANAGER Required for South Yorkshire Branch of Mastic Asphalt and Felt Roofing Contractors. Technical knowledge of trade and administrative ability essential. Excellent opportunity for energetic man.—Apply Box 755, "The Builder."

CONTRACTS MANAGER Required to organise and run several medium-sized contracts. Must be keen and willing to undertake all duties in connection with the works in hand. Car provided. Give full particulars of qualifications, experience and salary required to Box 781, "The Builder."

CONTRACTS MANAGER OR AGENT to undertake the running and planning of a number of contracts, aggregate £750,000 per annum. Fullest details in writing of qualifications, experience and salary required. Car provided. Only keen, energetic man should apply to Box 782, "The Builder."

**PAINTING MANAGER Required by Building Contractors to take charge of Painting and Decorating Department.—Reply in strict confidence giving details of experience and present salary to Managing Director, GEO. WEBB & SON, Ltd., 156 Soho Hill, Birmingham, 19.**

ASSISTANT CONTRACTS MANAGER Required, aged 25 to 35, previous site experience desirable. Good prospects for man with drive and initiative.—Write giving full details of age, experience, salary required, etc., to KIND & COMPANY (BUILDERS), Ltd., 564 High-road, Leytonstone, London, E.11.

BUILDING MANAGER Required for supervision of Contracts up to £100,000 in South Hants area. Applicants should state present position, experience and salary required.—Apply: JNO. CROAD, Ltd., Portland-street, Portsmouth.

## AREA MANAGERS

### South of England

Progressive firm of Contractors have two newly created posts to offer keen experienced men, between the age 30-50.

There are definite prospects for further advancement, bonus is paid on results, and participation in our Pension Scheme. Accommodation available in one area after satisfactory trial period.

Applicants must possess knowledge of modern building methods, be experienced in modern management techniques including planning, cost control, work study, etc.

Reply fully stating experience, age, and salary required to

**Box No. 662, "The Builder"**

## HUMPHREYS LIMITED

**199, Knightsbridge, London, S.W.7**

require the following staff

**ASSISTANT CONTRACT MANAGER:** To assist Contract Manager on all types of contracts. Must have had previous experience on work of magnitude and complexity.

**ESTIMATOR:** To assist Chief Estimator on a wide range of building and civil engineering work, must have had experience on substantial projects with reputable firms and be capable of producing detailed make-ups based on modern plant usage and techniques.

Substantial salaries, good conditions, superannuation, etc., for the right men.

**TRAINEES:** Young men 16–20, with not less than five G.C.E. subjects at "O" level who wish to enter the building and civil engineering industry, are offered the opportunity of training in contract organisation, estimating, surveying, production or purchasing.

Please give details of education, experience, when available, and salary required, in strictest confidence. Envelopes should be addressed to Personnel Department, Humphreys Ltd., and marked 'Private and Confidential'.

AREA BUILDING MANAGER.

An old-established and progressive firm of Building Contractors wishes to appoint an AREA MANAGER.

Candidates must have successfully managed contracts ranging from £25,000 to £250,000 in value. Experience of large private housing contracts would be an advantage. Experience in the application of modern building methods and management techniques, preferably including planning, and cost control, is most essential. The candidate selected must have the personal qualities necessary to develop contacts and increase turnover within the area.

This is a Senior appointment and a substantial salary will be paid to the successful candidate. A car will be provided and a Pension Scheme is in operation. Age range is 35 to 45. Applications, giving experience, qualifications, personal background, and salaries earned, should be addressed to URWICK, ORR & PARTNERS, Ltd., who have been asked to advise in connection with this appointment, at Urwick House, 14 Hobart-place, London, S.W.1, quoting reference AMB/1301 on the envelope.

OFFICE MANAGER Required for London office of national firm of specialist sub-contractors. Must have good general office experience, knowledge of wages, buying, etc., and be able to control and organise office staff up to 40 personnel. Only conscientious men seeking a permanent position need apply.—Write stating age, experience and salary required to Box 849, "The Builder."

ASSISTANT BUILDER'S MANAGER for London; must be joinery trained, capable to take details in every respect; middle age not objected to—Write full particulars of experience (in chronological order), state age, salary required and when free. No application considered without above information.—Box 839, "The Builder."

PAINTING CONTRACTORS with widespread National interests Require men of outstanding business acumen as future MANAGING DIRECTORS to take complete charge of new businesses to be opened in many localities.

Applicants should be between 30 and 36. Preference will be given to applicants who are Surveyor trained and who are in possession of some technical or professional qualifications. A previous knowledge and experience of measuring painting work is absolutely essential. Applications in writing are requested from individuals who consider they have sufficient commercial ability to justify salaries and bonus in excess of £2,000 per annum.—Box 840, "The Builder."

ASSISTANT CONTRACTS MANAGER Required for progressive East London Contractors. Applicants should have L.I.O.B. or H.N.C., and have had some experience in supervision of building contracts. Younger man with surveying background would however be considered.—Box 841, "The Builder."

## THE CUBITT GROUP

**HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN) LTD.**

*invite applications from suitably qualified persons*

for employment in the

## MANAGEMENT AND CONTROL OF LARGE BUILDING CONTRACTS

The work involves the application of modern management techniques including planning, cost control and the maintenance of high quality standards. The appointment offers splendid opportunities for advancement and can be considered permanent and is pensionable.

*To ensure the strictest confidence, will applicants please reply to the*

**Director in charge of Main Building Department at 1 Queen Anne's Gate, London, S.W.1**

As a result of a rapidly expanded business the following staff are required:—

**CONTRACTS MANAGER**—Able to supervise planning, specifications, etc. Salary from £1,000 per annum.

**ESTIMATOR**—Fully conversant with all branches of the shopfitting trade. Salary from £850 per annum.

**SUPERVISOR**—Able to carry contracts through to final stage. Salary from £850 per annum.

Write in first instance to:—

**City Industrial Limited, Shopfitters, Farringdon Station Chambers, E.C.1.**

BUYER Required for large Devon Building Contractors. Must be surveyor trained with ability to accurately take-off, be a keen negotiator in respect of Contracts up to £500,000. A permanent and progressive position is available for person with drive and proven ability.—Full details, in confidence, of education, past experience and salary required, to Box 757, "The Builder."

THE IBSTOCK BRICK & TILE COMPANY Requires one or two SALES REPRESENTATIVES, preferably between the ages of 25 and 30, for various parts of the country (not London area).—Write in the first instance with full particulars to Sales Director, IBSTOCK BRICK & TILE Co., Ltd., Ibstock, Nr. Leicester.

BUYER. EXPERIENCED ASSISTANT for Buying Department to deal with Home and Overseas Contracts. Age 25/40. Progressive appointment with Pension Scheme and other attractive conditions.—BERNARD SUNLEY & SONS (P.D.), 25 Berkeley-square, W.1.

FIREPLACE SPECIALISTS Require experienced SALESMAN for West End Showrooms.—Write in first instance to BRATT COLBRAN LIMITED, Lancelot-road, Wembley, Middx., giving details of age, experience and when available.

SALES REPRESENTATIVE with knowledge of building construction and cost application Required by firm of Timber Engineers marketing decking, curtain walling and allied products; calling on Local Authorities, Architects and Contractors in East Anglia and E. London. Candidates must have enthusiasm and the will to succeed. Contributory Pension Scheme. Car and expenses provided. Salary by arrangement.—Replies in confidence, Sales Manager, H. NEWSUM, SONS & CO., Ltd., 238 High-street, Lincoln.

SALES AND TECHNICAL REPRESENTATIVE with established connection among architects and contractors, London and Home Counties, offered responsible position with prospects.—Write giving full particulars and salary expected, LENSCRETE, Ltd., Queen's-circus, S.W.8.

# REPRESENTATIVE

wanted for Austrian Exporters of special Board, Doors, Blockboard panelling, Blockboard parquet.

**Box 798 The Builder**

TECHNICAL REPRESENTATIVE Required for Linotol Flooring. Applicant must reside in the Birmingham area, and have a good knowledge of Floor Finishes.—Apply in writing stating age, experience and salary required to E. B. TRUMPER & SONS (BIRMINGHAM), Ltd., Pool-lane, Langley.

SALES PROMOTION ASSISTANT Required as TECHNICAL CORRESPONDENT by leading manufacturer of prefabricated buildings (Home Counties). Essential characteristics are architectural or building trade background, flair for selling, sound executive sense with ability to write concise and fluent technical sales letters of a high standard.—Send full details of education, career, salary, etc., to Box 792, "The Builder."

ASSISTANT BUYER Required by Building Contractor. Aged 23 to 27. Previous experience essential. Existing holiday arrangements respected.—Apply PROWTING, Ltd., 127 High-street, Ruislip, Middlesex, stating age, experience and salary required.

SALES REPRESENTATIVE Required to market Hydraulic Excavators and General Builders' Plant in the Essex Area.—Apply in writing stating age, experience and salary required to Box 842, "The Builder."

**WILSON LOVATT & SONS LTD.**

have vacancy in their

**BUYING DEPARTMENT**

at Head Office for a

# BUYER

The duties will consist in issuing enquiries for Materials and Sub-Contractors quotations for tendering purposes.

Applicants should be familiar with Bills of Quantities, Specifications and General Conditions of Contract and be between the age of 26 to 36 years. Applications should state age, training and previous experience and salary expected, addressed to the

Personnel Manager,
Clarence Street, Wolverhampton.

FLOORING CONTRACTORS (East London Area) Require a man with experience in the Building and Flooring Industry for Sales promotion.—Full details of career, salary required; age, etc., to Box 843, "The Builder."

CASHIER-TIMEKEEPER, also TIMEKEEPER-SITECLERKS, age 28-45. Experienced applicants for both London and Provinces offered good salaries, Pension Scheme and other attractive conditions.—BERNARD SUNLEY & SONS (P.D.), 25 Berkeley-square, W.1.

ACCOUNTS CLERK, Male, age 20-28, for Building Contractors' Head Office. Experience book-keeping, costing, essential; knowledge Building Industry desirable. Pension Scheme and other attractive conditions.—BERNARD SUNLEY & SONS (P.D.), 25 Berkeley-square, W.1.

**BUILDERS' CLERK to send out enquiries to Sub-Contractors and Suppliers for estimating, and assist in Cost and Order Departments. Accommodation may be available.—Reply stating age, experience and salary required, The Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans.**

JOHN BOLDING & SONS, Ltd., Require a SENIOR CLERK having experience of sanitary fittings for the Contracts Department at their Head Office, Grosvenor Works, Davies-street, W.1. Excellent working conditions and prospects. Canteen. Pension scheme, etc.—Apply to the Secretary (MAYfair 6617).

GOSLETT'S of Charing Cross-road have a vacancy in their order department, light side, for a CLERK in good trade knowledge for pricing and general correspondence. Progressive position. Write stating age, experience and salary required.—A. GOSLETT AND CO., Ltd., 127-131 Charing Cross-road, W.C.2.

ASSISTANT SECRETARY/ACCOUNTANT Required by large private company of Building and Civil Engineering Contractors in S. Midlands. Administrative and full accountancy experience essential. Exceptional opportunity for a man about thirty willing to accept responsibility and with present or future C.I.S. qualification having ambition to attain possible future executive position. Personal details of education and career in confidence to Box 758, "The Builder."

BUILDER'S CLERK with knowledge of estimating, quantities and builders' accounts required for Chief Architects' Department of large multiple retail company with offices in London. Five-day week, dining room, and pension scheme. Applicants should state age, experience and salary required.—Box 759, "The Builder."

GENERAL WAGES CLERK/CASHIER Required for firm of Sub-Contractors. Must be experienced in the building trade. Aged 25/35. Good salary and permanent position for suitable applicant. Apply in writing, stating qualifications and experience, and when free.—Box 760, "The Builder."

**COST CLERK Required for Contractor's office, East London. Previous experience essential.—Write stating age, experience and salary required.—Box 785, "The Builder."**

CLERK Required in Costing Department, experience desirable but not essential.—Reply in own handwriting, TRUETT & STEEL, Ltd., High-street, Thornton Heath, Surrey.

MALE WAGES CLERK, able to assist with Accounts, Required by Building Contractors in the W.11 area.—Write, stating age, experience and salary required, Box 812, "The Builder."

COST CLERK Required, 22-25 years of age, with sound costing experience of high-class furnishing, decoration and/or building contracts. Really interesting progressive position with North Surrey Specialist Company of high repute.—Full details in confidence to Box 794, "The Builder."

CASHIER/WAGES AND ACCOUNTS CLERK Required for London office of expanding company. Apply with full details of previous experience, salary expected and when available, to General Manager, FARRANS, Ltd., 39 Upper Brook-street, London, W.1.

BONUS AND SITE CLERK wanted for new S.M. School at Thame, Oxon. Salary according to qualifications and experience.—Apply in writing to DONALD LOCKHART, Ltd., 295 High-street, Berkhamsted.

CLERK, male (19-23) Required for Joinery Works office. Must be accurate at figures and a knowledge of timber calculations advantageous. Canteen on premises.—Write stating age, experience, and salary required, to Staff Manager, GASKELL & CHAMBERS (LON), Ltd., 109-115 Blackfriars-road, S.E.1.

COST CLERK Required by Builders, S.W.11 area (40-50 men), capable of assisting with measuring stock records and invoicing.—Apply full details, salary required to Box 877, "The Builder."

BUILDERS' CLERK Required in mid-Bucks area, permanent position with good prospects. Young man in early 20's preferred. Possibility of house available shortly. Write giving details of experience and salary required.—Box 846, "The Builder."

FEMALE WAGES CLERK Required for London office of national firm of specialist sub-contractors, age 19/20.—Write stating experience and salary required to Box 847, "The Builder."

ACCOUNTS DEPARTMENT ASSISTANT Required for specialist sub-contractors' office. Fully conversant with costing, wages, bought and sold ledgers and all builders' general office routine.—Write full particulars to Box 850, "The Builder."

ACCOUNTS CLERK Required by West London Builders and Contractors. Write stating age, experience and salary required.—Box 844, "The Builder."

ASSISTANT Required for West Middlesex builders to co-ordinate labour and organise small works department.—Write stating age, salary required, etc., Box 700, "The Builder."

## ACCOUNTANT/OFFICE MANAGER

Well known Building Contractors. West of London. Salary not less than £750 per annum. Good prospects for man of ability and enthusiasm. Details experience, age, previous employers.

**Box No. 845 The Builder**

## TECHNICAL ASSISTANT

Well-known medium-sized Building Contractors. Head Office West of London.

Position is of importance, and successful applicant will be responsible only to Directors. First-class knowledge of Building Construction, planning of Contracts and Site Experience.

Applications should state full details of experience, age, name, previous employers, and basic trade.

Good prospects for ambitious, keen and hard-working man not over 40 years of age, able to meet Architects and negotiate Sub-Contracts.

**Box 761 "The Builder"**

BUILDER'S ASSISTANT Required by Private Housing Estate Development Company.—Write giving age, qualifications, experience and salary required to DURTNELL GARDEN ESTATES, Ltd., 18 St. John's-hill, Sevenoaks, Kent.

ASSISTANT for Senior Plastering Surveyor. Must have had experience in similar position. Excellent opportunity for young ambitious man. Send full particulars.—Box 703, "The Builder."

GENERAL ASSISTANT Required (25 to 35 years) to Managing Director of medium-sized old-established business. Applicant must have good technical knowledge of all sides of the business and be capable of supervision of contracts, quantities up to final accounts. Applicant with the necessary qualifications, drive and initiative could attain high executive position. Small house available.—Apply stating age and whether married and forward details of education, technical qualifications and state salary required, to GEO. F. KIRK, Ltd., Manor Works, Manor-road, Chesterfield.

YOUNG MAN Required in London office of Roofing Contractors checking and later preparing estimates and final accounts, extracting quantities, etc. Must be good at figures and willing to become versed in all aspects of Roofing contract business.—Box 762, "The Builder."

ASSISTANT Required in Building Contractor's Sub-Contracts Office.—Write stating age, experience and salary required to Personnel Manager, FORD & WALTON, Ltd., Walton House, Warton-road, London, E.15.

A VACANCY occurs in the office of a medium-sized firm of Builders in the West End of London for a YOUTH to learn the business from A to Z, with the ultimate object of managing the business. An excellent opportunity for a young man with intelligence and ambition and an aptitude for the Building Trade.—Apply, stating particulars of age, education and experience (if any) to Box 984, "The Builder."

LARGE Building/Civil Engineering organisation intends to appoint a SENIOR BUILDING AGENT used to large top quality contracts. Good basic knowledge of concrete essential. Also experience in modern specialist works. Excellent opportunity for fully experienced man. Fully mobile. Age 35 to 45, superannuation scheme in being, excellent salary and conditions.—Write Box No. DL.9251, c/o. WHITES, 72 Fleet-street, E.C.4.

ROBT. M. DOUGLAS (CONTRACTORS) Ltd., Require AGENTS with Contract experience in large building works.—Apply in writing, stating age, qualifications, experience and salary required, to 395 George-road, Birmingham, 23.

AGENT Required for W.D. term contract work, preferably ex-military trained Clerk of Works or Agent, experienced on this type of work. Pension Scheme in operation. Work in the Surrey area.—Box 775, "The Builder."

AGENT Required by National Contractors for private enterprise flat contract Coventry area.—Please reply stating trade and experience to Box 811, "The Builder."

AGENTS Required by manufacturer and merchants of builder's brassfoundry. Only men with experience and good connections considered. Generous commission.—Box 799, "The Builder."

# AGENT AND SENIOR GENERAL FOREMAN

An old established National Civil Engineering and Building Company invites applications from men aged between 35/45 who have reached the top of their profession and are desirous of making a change. A good Civil Engineering and/or Building background on large Contracts in Great Britain is essential and only men who are capable of operating on own initiative and conversant with all modern methods of construction plant and labour need apply. Applications which should state training and past experience in chronological order will be treated in strict confidence and should be addressed to Personnel Manager,

**Box No. 701, "The Builder"**

EXPERIENCED OUTSIDE SUPERVISOR Required to work direct to the Senior Assistant. Expert draughtsmanship not essential.—D. C. DENTON-SMITH & PARTNERS, Chartered Architects, Surveyors, 40 Regent-street, Cambridge.

WORKING FOREMAN, preferably C. & J., required for Contract South Oxfordshire.—Box 763, "The Builder."

GENERAL FOREMAN Required for medium size contract, Block of Flats and Road, South East London. Write stating age, experience and salary.—Box 764, "The Builder."

**BERNARD SUNLEY & SONS LTD.**

**require fully experienced**

**GENERAL FOREMEN**

for contracts in the London area, North and South of the Thames, and in Hertfordshire. Attractive conditions in an expanding organization offered to men who have been in charge of work along preplanned lines. Superannuation scheme in existence. Apply in writing giving full details of past experience, to the **Contracts Manager, 25 Berkeley Square, London, W.1.**

EXPERIENCED GENERAL FOREMAN Required for new Estates in Home Counties. Write with full details to:—
THE BUNTING CONSTRUCTION CO., Ltd.,
73 Acre-lane,
Brixton,
S.W.2.

GENERAL FOREMAN Required by well-known Builders for housing estate London suburbs. Excellent prospects.—Write with full details to Box 765, "The Builder."

JOHN LAING AND SON LIMITED invite applications from experienced FOREMEN CARPENTERS and FOREMEN BRICKLAYERS, under 35 years of age. The appointments offer opportunity and training for increased responsibility in supervision and applicants should have suitable technical qualifications. Full mobility required and interested persons should apply in writing stating age, experience and qualifications to Personnel Manager (Ref. FCB.2), JOHN LAING AND SON LIMITED, London, N.W.7.

PAINTER'S SUPERVISOR Required, salary, good bonus arrangement and sound prospects offered. Only those with previous experience in similar position will be considered.—Write fully, Box 987, "The Builder."

GENERAL FOREMAN Required for £60,000 municipal flat contract in the City.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

GENERAL FOREMEN Required for £30,000 municipal contracts at Malden and Greenwich.—Apply in writing RICHARDSON, Herbert House, Slade Green, Erith, Kent.

GENERAL FOREMAN Required for large housing scheme at Maidstone, Kent.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

GENERAL FOREMEN. Contractors would like to receive particulars from good GENERAL FOREMEN for flats and housing contracts, Southern Counties, starting near future.—Box 994, "The Builder."

CONTRACTS SUPERVISOR Required by established and expanding company to organise and run one or more contracts, agree Interim Certificates. Good salary, pension scheme. Manchester area.—Box 784, "The Builder."

GENERAL FOREMAN Required by progressive and expanding firm of Building Contractors for School and other Contracts in the Manchester area. —Write giving full details of age, experience and salary required to Box 791, "The Builder."

GENERAL FOREMAN Required for controlling completions on large London multi-storey contract. Experience on all classes of highly competitive building work essential. Permanent and progressive superannuable position to right man.—Write, stating age, qualifications, experience and present salary to: Personnel Manager, WATES, Ltd., 1258/60 London-road, Norbury, S.W.16

GENERAL FOREMAN Required for School contract in Surrey area. Must be fully experienced. —Details, including age, to SLOGGETTS (CONTRACTORS), Ltd., 209 High-street, Hampton Hill.

GENERAL FOREMAN Required, experienced in reinforced concrete work for multi-storey block of flats in the City, carpenter preferred.—Apply in writing, RICHARDSON, Herbert House, Slade-green, Erith, Kent.

**TERRAZZO and MOSAIC SUPERVISOR**

**required by progressive Company, Middlesex area;** must be fully experienced in flooring trade, and held similar position controlling labour and attending site meetings, for contracts valued up to £70,000. Knowledge of Italian essential, and in possession of current driving licence. Permanent and progressive position for right applicant.

**Box No. 766 "The Builder."**

GENERAL FOREMAN/AGENT Required, fully experienced in all aspects of Building Trade.—Apply with full particulars to Area Manager, HENRY BOOT & SONS (B.), Ltd., James-road, Camberley, Surrey.

GENERAL FOREMAN Required, experienced multi-storey flats, London area.—Write, giving details, to ROWLEY BROS., Dunloe-avenue, Tottenham, N.17.

GENERAL FOREMAN Required for contract at Horley, Surrey, for houses, shops, etc. Must be fully experienced.—Please reply stating age, experience, salary required and when available, to KIND & COMPANY (BUILDERS), Ltd., 564 High-road, Leytonstone, London, E.11.

FIRST-CLASS FOREMAN/AGENT Required for a specialist reinforced concrete contract in Liverpool area. Must have had varied experience in precast work.—Apply Box 696, "The Builder," stating age, salary required and detailed experience.

GENERAL FOREMAN Required about end of June for structural alterations, Office Block, West End London.; approximately £25,000. Must be keen and fully experienced man. References required.—Write giving full details of experience, age, trade, etc., to E. H. J., 34-39 East Smithfield, E.1, or telephone for appointment for interview: ROYAL 7993.

Leading firm of Building Contractors require a

**SUPERVISOR/ESTIMATOR**

able to deal with small jobbing and maintenance work in the London area from enquiry to final account.
Applications stating age, experience and salary required to:

**Box 806 The Builder.**

PLASTERING SUPERVISOR, London Contracts. —Write full details of experience, age, wages, etc.—Box 702, "The Builder."

BUILDING/CIVIL ENGINEERING FIRM of National repute intends to appoint a BUILDING SUPERVISOR to operate from office in Midlands. Successful candidate will have direct responsibility for operations and control of contracts. Extensive practical experience in modern methods with proven record of administrative ability essential. Good salary and conditions; pensionable appointment. Age near 40.—Write Box No. DL.9247, c/o WHITES, 72 Fleet-street, E.C.4.

SUPERVISOR Required for small works at Beckenham branch of established building contractors. Must have experience in this field including domestic and industrial work. Must be able to drive. —Apply, stating age, previous employers, present salary, to T. GRAHAM & CO., 98 High-street, Beckenham, Kent.

GENERAL FOREMAN take charge Jobbing and Small Works 30/40 men. Must be experienced all trades and good organiser. Able drive van. Poole area.—Apply with full details of experience and rate required to Box 815, "The Builder."

GENERAL FOREMAN with good knowledge of private enterprise housing Required for South Wales area. Capable of setting out, supervising all trades and getting completions to schedule. Full particulars to Box 800, "The Builder."

A PROGRESSIVE Timber Building and Joinery firm in Surrey Require the services of a Practical ASSISTANT FOREMAN trained in the technicalities of the trade and familiar with the latest woodworking methods. He must be capable of preparing proper working drawings, setting-out and taking-off cutting details. Write stating previous experience, age and salary required.—Box 772, "The Builder."

GENERAL FOREMAN Required for £500,000 contract in the West London area.—Write giving full details of age, experience and salary required to Box "M.S.", c/o J. W. VICKERS & Co., Ltd., 7/8 Great Winchester-street, E.C.2.

GENERAL FOREMAN Required for New Works and Extensions up to £60,000. London and Home Counties.—Write full details of experience to Box 861, "The Builder."

**FIRST class GENERAL FOREMAN Required for Oxford area for private enterprise house building. Experience in road and sewer work an advantage. Excellent opportunity for the right man. New bungalow available if required.—Write stating age and particulars of experience to Box 862, "The Builder."**

BUILDER'S FOREMAN/MANAGER Required (Surbiton area). Must possess first-class knowledge of building construction and decorating.—Write stating age, experience and salary required to Box 863, "The Builder."

ASSISTANT/SUPERVISOR Required to Director of Building Company specialising in small building contracts, good-class new houses and decorating, in the Guildford area. Good opportunity for man with initiative, personality and clean appearance. Must have a sound knowledge of the trade and be capable of some estimating. Clean licence holder. —Write giving details of experience, age and salary required to Box 851, "The Builder."

**FOREMAN PAINTER**

required by large London Painting Contractors. Must be first class man experienced in large Power Station work. Top rate, good bonus, and permanent job for the right man. No approach to present employer without applicant's permission. Write giving age, full details of past experience etc., to **Box 852.**

**"The Builder"**

FIRST-CLASS WOODWORKING MACHINIST Required for high-class Joinery Works in mid-Bucks. Good working conditions. Possibility of house to suitable applicant.—Box 853, "The Builder."

PLUMBING IMPROVER required for small contracts and jobbing works; able work on own initiative. Also experienced MATE or interested YOUNGSTER, keen and willing to learn.—Box 705, "The Builder."

## OVERSEAS APPOINTMENTS

**Prepaid rate, 24 words, 7/6; additional 6 words, 1/6, Box number, including Forwarding Replies, 1/6.**

PERSIAN GULF. ASSISTANT QUANTITY SURVEYOR Required. Salary and allowances up to £1,600 p.a. Free accommodation. Single man preferred.—Details of experience to Box 974, "The Builder."

CHARTERED QUANTITY SURVEYORS Require TAKER-OFF, 25 to 28, qualified R.I.C.S., for service in East Africa, primarily Nairobi, Kenya, but spells elsewhere. Eighteen months' tour. Must be a bachelor. Basic salary £1,200 to £1,300. Air passage out and back, 6 weeks' leave end of term, 2 weeks' leave first year.—Apply giving full particulars, Box 706, "The Builder."

**Melbourne and Sydney, Australia.**

Vacancies occur in Quantity Surveyors' office for experienced

**TAKERS-OFF AND WORKERS-UP**

High salaries. Long or short contracts.
Fares paid to Australia.

**Box No. 768, "The Builder"**

MELBOURNE/SYDNEY, AUSTRALIA. The following vacancies occur in progressive Quantity Surveying Office. Commencing salaries stated are exclusive of overtime and bonuses. Fares to Australia paid. 3-year or shorter contract with annual salary increases. Continuation contract probable if desired. SENIOR TAKER-OFF, £A1,800. SENIOR WORKER-UP, £A1,400.—Box 767, "The Builder."

**AUSTRALIA**

**unmarried experienced TAKER-OFF aged 25–35 required for 6 months' contract in Sydney or Melbourne. Salary £A1,800 plus overtime and bonus. Fly out via Singapore and back via U.S. All expenses paid. An interesting experience for first-class, hard working taker off.**

**Box No. 854 The Builder**

ESTIMATOR-SURVEYOR Required with rapidly expanding organisation in West Africa, to act as CONTRACTS MANAGER after trial period of three months. Tours of eighteen to twenty-one months. Wife and family's passages paid once per tour. Salary £1,500 to £1,800. European House provided with all furnishings. Age between 30 and 50 years. Capable man for costing blocks of flats and houses; good mixer able to negotiate work with local authorities and companies. Ample opportunity in an established concern for an experienced man.—Send full details to MESSRS. JIDEOFO & SONS LIMITED, P.O. Box 278, Kano, Northern Nigeria.

GENERAL FOREMAN for West Africa. Tours of eighteen to twenty months. Wife and family's passages paid once per tour. Salary £1,500 to £1,800. European House provided with all furnishings. Age between 30 and 50 years. Honest and ambitious; ample opportunities for experienced men. Work will be on the construction of blocks of flats and houses in a rapidly expanding territory. Bonuses paid.—Send full details to MESSRS. JIDEOFO & SONS LIMITED, P.O. Box 278, Kano, Northern Nigeria.

PLUMBING FOREMAN/ASSISTANT MANAGER Required for Middle East. Applicants must have a sound practical knowledge of modern plumbing and codes of practice and should be able to estimate for plumbing installations. This is a first-class opportunity for an ambitious man prepared to work hard. Good salary and accommodation provided. Initial tour 18 months.—Apply with full details of training and career to Box 704, "The Builder." quoting Ref. NOF/23.

## SERVICES OFFERED

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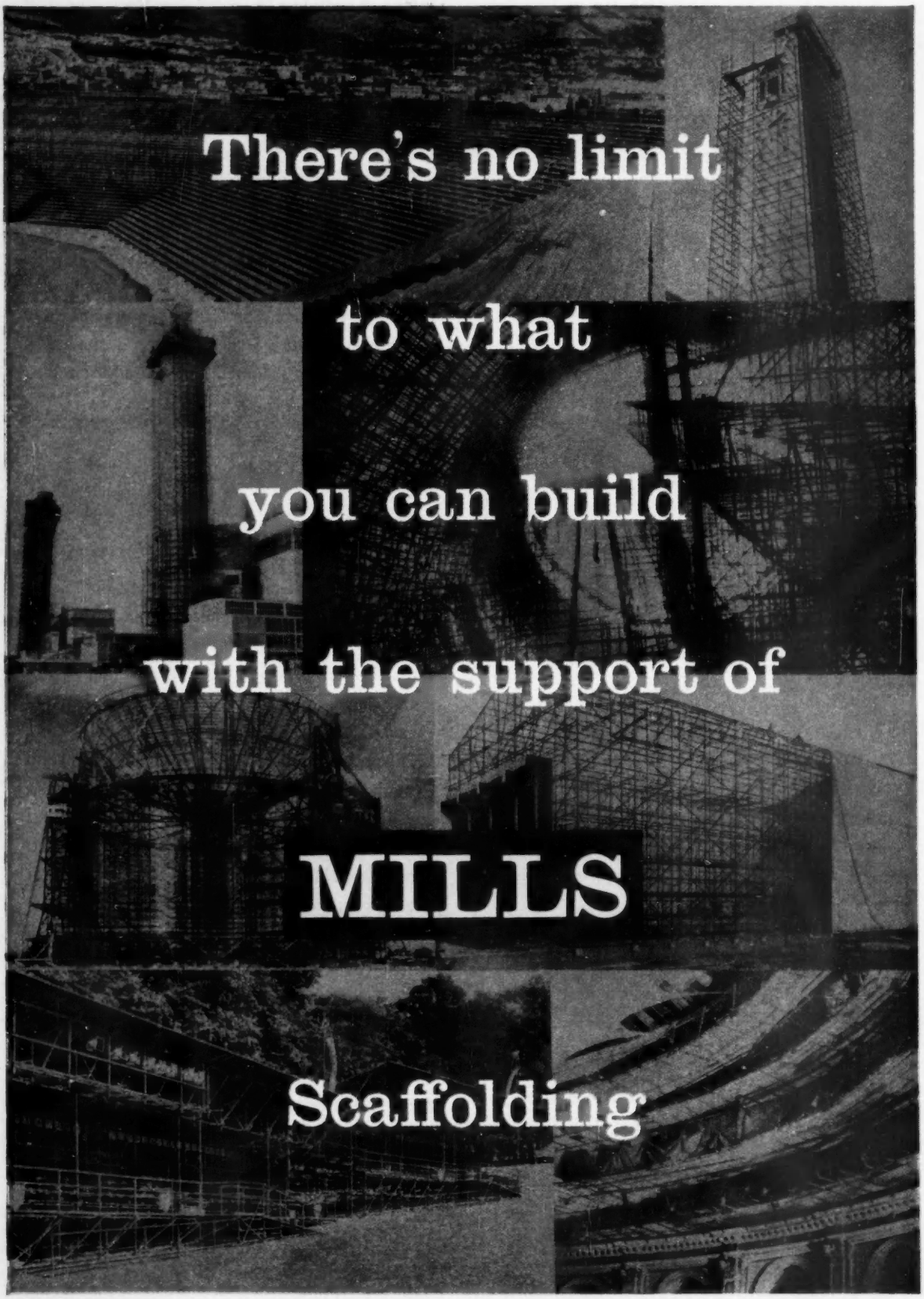


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